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# Nutrition Monitoring in the United States

## The Directory of Federal Nutrition Monitoring Activities

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

U.S. DEPARTMENT OF AGRICULTURE  
Food and Consumer Services

aTX360  
.U6N863  
1989





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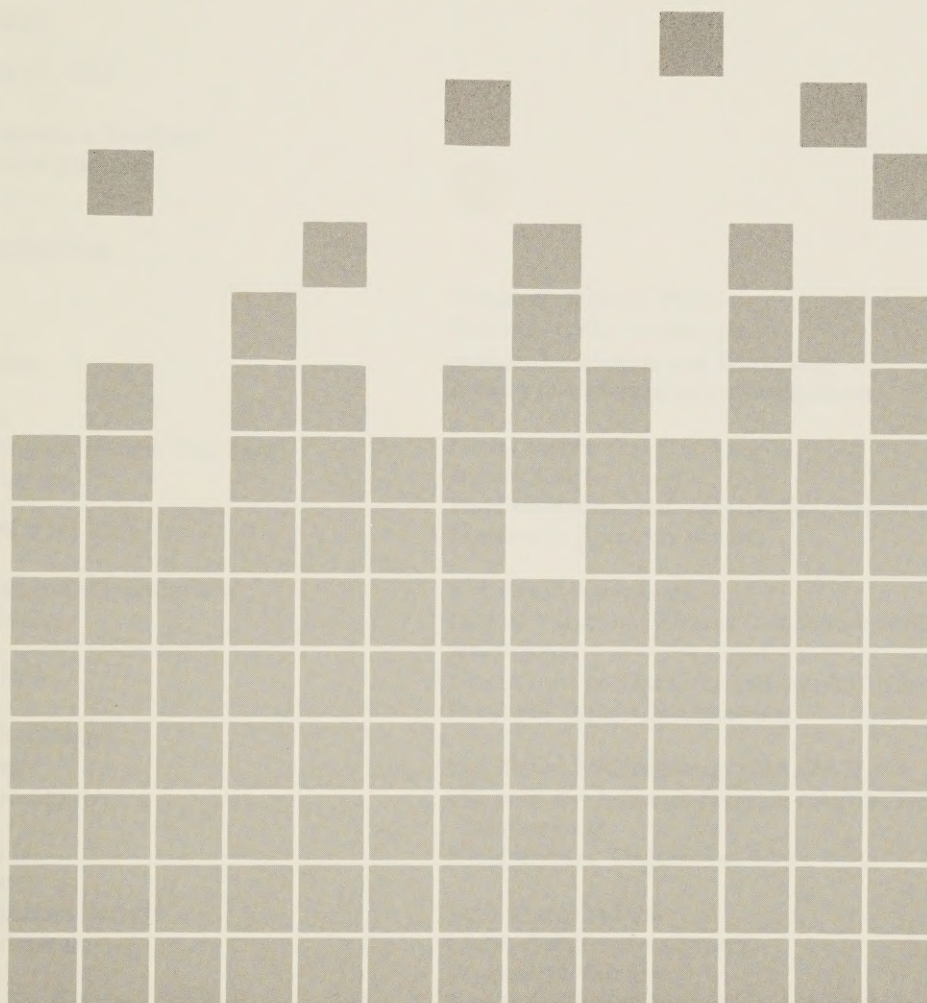
Interagency Committee on Nutrition Monitoring: *Nutrition Monitoring in the United States — The Directory of Federal Nutrition Monitoring Activities*. DHHS Publication No. (PHS) 89-1255-1. Public Health Service. Washington. U.S. Government Printing Office. September 1989.

For Sale by the Superintendent of Documents  
U.S. Government Printing Office  
Washington. D.C. 20402

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Prepared by the Interagency Committee on Nutrition Monitoring




U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service

U.S. DEPARTMENT OF AGRICULTURE  
Food and Consumer Services

Hyattsville, Maryland  
September 1989

DHHS Publication No. (PHS) 89-1255-1



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# Foreword

This directory is a unique resource and the first publication of the Interagency Committee on Nutrition Monitoring. The Interagency Committee on Nutrition Monitoring, cochaired by the Assistant Secretary for Health, U.S. Department of Health and Human Services, and the Assistant Secretary for Food and Consumer Services, U.S. Department of Agriculture, is responsible for enhancing the effectiveness and productivity of Federal nutrition monitoring efforts by improving the planning, coordination, and communication among the agencies engaged in nutrition monitoring. As a first step in responding to its charge, the committee has compiled a descriptive summary of current nutrition monitoring activities sponsored by various Federal agencies.

The directory is divided into six sections of which five categorize nutrition monitoring activities. These generally recognized components of nutrition monitoring include: nutrition and health status measurements, food and nutrient consumption measurements, food composition measurements, dietary knowledge and attitude

assessment, and food supply determinations. Surveys that are presented in the sixth section provide additional sociodemographic and economic information which is essential to an understanding of the relationships of food to health.

The directory serves as a companion publication to the triennial reports to the Congress on Nutrition Monitoring in the United States. The first report, published in 1986, described the nutritional status of the United States population. The second report, prepared by an Expert Panel of the Life Sciences Research Office, Federation of American Societies for Experimental Biology, will be published in the fall 1989, and will update the dietary and nutritional status information presented in the 1986 report. This report will also provide an in-depth analysis of the contributions of the National Nutrition Monitoring System to the evaluation of the relationship of dietary and nutritional factors in cardiovascular disease and to the assessment of iron nutriture.

# Acknowledgments

The Interagency Committee on Nutrition Monitoring would like to thank Herbert Szeto, Office of Disease Prevention and Health Promotion, and Sharon Stewart, National Center for Health Statistics, who provided assistance in gathering and compiling the information

contained in this report. Special appreciation is extended to Dr. Marie T. Fanelli-Kuczmarski for her work in coordinating the activities related to the production of this directory.

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# I. Health and Nutritional Status Measurements

## National Health and Nutrition Examination Survey I (NHANES I)

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1971–74

**Purpose:** The purpose of NHANES programs, including NHANES I, is the collection and dissemination of data that can be obtained best or only by direct physical examination, clinical and laboratory tests, and related measurement procedures. This information, which cannot be furnished by people themselves or by health professionals who provide their medical care, is generally of two kinds. Prevalence data are collected for specifically defined diseases or conditions of ill health; and normative health-related measurement data are collected to describe the health characteristics within the total population. In addition to providing this information, NHANES I was designed to permit analytic studies that take advantage of the large amount of health and nutrition information that was collected from each participant.

**Target Population:** Civilian noninstitutionalized persons ages 1 through 74 years.

**Design:** Interview and examination survey. Complex, multistage, stratified, probability clustered sample of households throughout the United States.

**Sample Size and Response Rate:**

	Sample size	Response rate
Total . . . . .	28,043	
Interviewed . . . . .	27,753	99%
Examined . . . . .	20,749	74%

**Measures:** Dietary interviews, body measurements, hematological tests, biochemical analyses of whole blood and serum, blood pressures, electrocardiograms, urine tests, x rays of hand and wrist, and dental examinations.

**Control Variables:** Wide range of demographic and medical information.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. Tapes that are most relevant to nutrition are those on 24-hour food consumption, dietary frequency, anthropometry, biochemistry, and hematology. See appendix A for accession numbers and prices.

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**Selected Key Publications:**

National Center for Health Statistics, Johnson CL. Basic Data on Anthropometric Measurements and Angular Measurements of Hip and Knee Joints for Selected Age Groups 1–74 Years of Age, United States, 1971–75. *Vital and Health Statistics*. Series 11, No. 219 (1981). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 81-1669].

National Center for Health Statistics, Singer JD, Granahan P, Goodrich NN, et al. Diet and Iron Status, A Study of Relationships: United States, 1971–74. *Vital and Health Statistics*. Series 11, No. 229 (1982). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 83-1679].

National Center for Health Statistics. *Dietary Intake Source Data, United States, 1971–74* (1979). U.S. Government Printing Office, Washington, D.C. [DHEW Pub. No. (PHS) 79-1221].

National Center for Health Statistics. Plan and Operation of the Health and Nutrition Examination Survey, United States 1971–73. *Vital and Health Statistics*. Series 1, No. 10a (1973) and 10b (1977). U.S. Government Printing Office, Washington, D.C. [DHEW Pub. No. (PHS) 79-1310].

National Center for Health Statistics, Fulwood R. Serum Cholesterol Levels of Persons 4–74 Years of Age by Socioeconomic Characteristics, United States, 1971–74. *Vital and Health Statistics*. Series 11, No. 217 (1980). U.S. Government Printing Office, Washington, D.C. [DHEW Pub. No. (PHS) 80-1667].

# National Health and Nutrition Examination Survey II (NHANES II)

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1976-80

**Purpose:** The purpose of NHANES programs, including NHANES II, is the collection and dissemination of data that can be obtained best or only by direct physical examination, clinical and laboratory tests, and related measurement procedures. This information, which cannot be furnished by people themselves or by health professionals who provide their medical care, is generally of two kinds. Prevalence data are collected for specifically defined diseases or conditions of ill health; and normative health-related measurement data are collected to describe the health characteristics within the total population. In addition to providing this information, NHANES II was designed to permit analytic studies that take advantage of the large amount of health and nutrition information that was collected from each participant.

**Target Population:** Civilian noninstitutionalized persons ages 6 months through 74 years.

**Design:** Interview and examination survey. Complex, multistage, stratified, probability clustered sample of households throughout the United States.

## Sample Size and (Response Rate):

	Sample size	Response rate
Total . . . . .	27,801	
Interviewed . . . . .	25,286	91%
Examined . . . . .	20,322	73%

**Measures:** Dietary interviews, body measurements, hematological tests, biochemical analyses of whole blood and serum, oral glucose tolerance tests, blood pressures, electrocardiograms, urine tests, and x rays of the cervical and lumbar spine and of the chest.

**Control Variables:** Wide range of demographic information including age, sex, race, national origin, education, income, and marital status.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. Tapes that are most relevant to nutrition are those on nutrient data base, 24-hour food consumption, total nutrient and caloric intake, food frequency, anthropometric data, hematology, and biochemistry. See appendix A for accession numbers and prices.

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## Selected Key Publications:

National Center for Health Statistics, Najjar MF, Rowland M. Anthropometric Reference Data and Prevalence of Overweight, United States, 1976-80. *Vital and Health Statistics*. Series 11, No. 238 (1987). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1688].

National Center for Health Statistics, Carroll MD, Abraham S, Dresser CM. Dietary Intake Source Data. *Vital and Health Statistics*. Series 11, No. 231 (1983). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 83-1681].

National Center for Health Statistics, Fulwood R, Johnson CL, Bryner JD, et al. Hematological and Nutritional Biochemistry Reference Data for Persons 6 months-74 Years of Age: United States, 1976-80. *Vital and Health Statistics*. Series 11, No. 232 (1982). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 83-1682].

National Center for Health Statistics, McDowell A, Engel A, Massey JT, Maurer K. Plan and Operation of Second National Health and Nutrition Examination Survey, 1976-80. *Vital and Health Statistics*. Series 1, No. 19 (1981). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 82-1321].

Yetley E, Johnson C. Nutritional Applications of the Health and Nutrition Examination Surveys (HANES). *Ann Rev Nutr* 7:441-63, 1987.



# Hispanic Health and Nutrition Examination Survey (HHANES)

**Sponsoring Agency:** National Center for Health Statistics (NCHS), Centers for Disease Control

**Conducted:** 1982–84

**Purpose:** The purpose of HHANES was the collection and dissemination of data obtained from physical examinations, diagnostic tests, anthropometric measurements, laboratory analyses, and personal interviews of Mexican Americans, Puerto Ricans, and Cubans. The HHANES was the first special population survey undertaken by NCHS. The design for this survey placed an emphasis on identifying unmet health care needs among Hispanics.

**Target Population:** Civilian noninstitutionalized “eligible” Hispanics ages 6 months through 74 years; that is, Mexican Americans in five Southwestern States, Cubans in Dade County, Florida, and Puerto Ricans in New York, New Jersey, and Connecticut.

**Design:** Complex, multistage, stratified, clustered samples of the defined populations.

## Sample Size and Response Rate:

	Sample size	Response rate
Mexican American. . . . .	9,894	
Interviewed. . . . .	8,554	87%
Examined. . . . .	7,462	75%
Cuban . . . . .	2,244	
Interviewed. . . . .	1,766	79%
Examined. . . . .	1,357	61%
Puerto Rican . . . . .	3,786	
Interviewed. . . . .	3,369	89%
Examined. . . . .	2,834	75%

**Measures:** Dietary interviews, body measurements, hematological tests, biochemical analyses of whole blood and serum, oral glucose tolerance tests, blood pressures, electrocardiograms, and dental examinations.

**Control Variables:** Wide range of demographic information including age, national origin, sex, income, education, and marital status.

**Accessibility and Availability:** Public use data tapes on body measurements, dietary practices and food frequency, and alcohol consumption are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. Additional data to be released.

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## Selected Key Publications:

National Center for Health Statistics, Maurer KR, Russell-Briefel R, Dresser CM, et al. Plan and Operation of the Hispanic Health and Nutrition Examination Survey, 1982–84. *Vital and Health Statistics*. Series 1, No. 19 (1985). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 85-1321].

National Center for Health Statistics, Najjar MF, Kuczmarski RJ. Anthropometric Data and Prevalence of Overweight for Hispanics: 1982–84. *Vital and Health Statistics*. Series 11, No. 239 (1989). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 89-1689].

# National Health and Nutrition Examination Survey III (NHANES III)

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** 1988–94

**Purpose:** Nutrition is a major determinant of health, and the resolution of many nutritional issues of public health concern requires population survey data. A major aim of the nutrition component is to provide data for nutrition monitoring purposes, including tracking nutrition-related risk factors and estimating the prevalence of compromised nutritional status. A second major aim of the NHANES III nutrition component is to provide information useful for studying the relationship between diet, nutritional status, and health.

**Target Population:** Civilian noninstitutionalized population ages 2 months and over.

**Design:** Interview and examination survey. Complex, multistage, stratified, probability clustered sample of households throughout the United States.

**Sample Size and Response Rate:**

*Sample size*  
Proposed 40,000

*Response rate*  
NA

**Measures:** Dietary interviews, body measurements, hematological tests, biochemical analyses of whole blood and serum, oral glucose tolerance tests, blood pressures, electrocardiograms, urine tests, bone densities, and dental examinations.

**Control Variables:** Wide range of demographic information.

**Accessibility and Availability:** Data will not be available until 1992 when information from the first half of the survey will be released.

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**Selected Key Publications:**

Woteki CE, Briefel RR, Kuczmarski R. Contributions of the National Center for Health Statistics. *Am J Clin Nutr* 47:320–8, 1988.

# National Health Interview Survey—Core Survey

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** Annually

**Purpose:** The object of the core survey is to address major current health issues through the collection and analysis of data on the civilian noninstitutionalized population of the United States. National data on the incidence of acute illnesses and injuries, the prevalence of chronic conditions and impairments, the extent of disability, the utilization of health care services, and other health-related topics are provided by the survey.

**Target Population:** Civilian noninstitutionalized population of the United States.

**Design:** Cross-sectional household interview survey. Complex, multistage, stratified, probability clustered sample of households throughout the United States.

**Sample Size and Response Rate:**

Sample size	Response rate
135,000	95%

**Measures:** Self-reports (for adults) and proxy reports (for children) consist of two parts: (1) a set of basic health and demographic items and (2) one or more sets of questions on current health topics. The basic items, about one-half of the questionnaire, are repeated each year. The questions on current health topics (supplements) facilitate a response to changing needs for data and coverage on a wide variety of issues. Recent special health topics are described subsequently.

**Control Variables:** Demographic variables include age, sex, race, education, and income. Health variables include disability days, physician visits, acute conditions, chronic conditions, limitation of activity, and hospitalization.

**Accessibility and Availability:** Public use data tapes are available annually. For basic items, see appendix A for accession numbers and prices. To order, contact National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. For current health topics, contact Ms. Nelma Keen, Chief, Systems Programming Branch, Division of Health Examination Statistics, NCHS, Room 2-44, 3700 East-West Highway, Hyattsville, Maryland 20782, (301) 436-7087.

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## Selected Key Publications:

National Center for Health Statistics, Schoenborn CA, Marano M. Current Estimates From the National Health Interview Survey, United States, 1987. *Vital and Health Statistics*, Series 10, No. 166 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1594].

National Center for Health Statistics, Schoenborn CA. Health Promotion and Disease Prevention, United States, 1985. *Vital and Health Statistics*, Series 10, No. 163 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1591].



# National Health Interview Survey (NHIS)—Supplement on Aging

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** January–December 1984

**Purpose:** This survey was design to complement the 1985 National Nursing Home Survey; together, the two surveys describe the health status and health care of most of the elderly population in the United States.

**Target Population:** Civilian noninstitutionalized population aged 55 and over in the United States.

**Design:** Personal interview survey. Complex, multistage, stratified, clustered sample, including all persons in the NHIS household who were 65 years of age or over and a randomly selected 50 percent of persons 55–64 years of age.

## Sample Size and Response Rate:

Sample size	Interviewed	Response rate
16,697	16,148	97%

**Measures:** Similar to NHIS. Self-reports on a set of basic health and demographic items.

## Control Variables:

*Topic areas*—Family structure, community services, occupation, health conditions, instrumental activities of daily living, health opinions, living arrangements, social support, retirement, activities of daily living, home care, and hospice.

*Nutrition-related items*—Meal services, difficulty preparing meals, and difficulty eating.

**Accessibility and Availability:** Public use data tapes. 1984 Supplement on Aging Data Set (includes persons and conditions tapes) is available for \$275.00 from Ms. Nelma Keen, Chief, Systems Programming Branch, Division of Health Interview Statistics, NCHS, Room 2-44, 3700 East-West Highway, Hyattsville, Maryland 20782, (301) 436-7087.

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## Selected Key Publications:

National Center for Health Statistics, Dawson D, Hendershot G, Fulton J. Aging in the Eighties: Functional Limitations of the Individuals 65 Years of Age and Over. *Advance Data From Vital and Health Statistics*, No. 133 (1987). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1250].

National Center for Health Statistics, Fulton JP, Katz S, Jack SS, Hendershot GE. Physical Functioning of the Aged. United States, 1984. *Vital and Health Statistics*, Series 10, No. 167 (1989). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 89-1595].

National Center for Health Statistics, Fitti JE, Kovar MG. The Supplement on Aging to the 1984 National Health Interview Survey. *Vital and Health Statistics*, Series 1, No. 21 (1987). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1323].

# National Health Interview Survey—Supplement on Health Promotion and Disease Prevention

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** 1985

**Purpose:** This survey was designed to measure progress toward the 1990 Health Objectives for the Nation and was collaboratively designed, sponsored, and analyzed by the agencies of the Public Health Service that have responsibility for monitoring progress toward the Objectives. It has been planned to repeat this survey in 1990.

**Target Population:** Civilian noninstitutionalized population aged 18 years and over in the United States.

**Design:** Complex, multistage, stratified, clustered sample.

## Sample Size and Response Rate:

<i>Sample size</i>	<i>Interviewed</i>	<i>Response rate</i>
36,300	33,630	93%

**Measures:** Similar to NHIS. Self-reports on a set of basic health and demographic items.

## Control Variables:

**Topic areas**—Pregnancy and smoking, general health habits, injury control, child safety and health, high blood pressure, stress, exercise, smoking, alcohol use, dental care, occupational safety and health, and preventive care.

**Nutrition-related items**—Breakfast regularity, snacking, doctor's advice on diet, height and weight, weight-loss knowledge, weight-loss practice, perceived relative weight, breastfeeding, diet to reduce hypertension, and fluoride use.

**Accessibility and Availability:** Public use data tapes. 1985 Health Promotion and Disease Prevention Sample Person Data Tape is available for \$160.00 from Ms. Nelma Keen, Chief, Systems Programming Branch, Division of Health Interview Statistics, NCHS, Room 2-44, 3700 East-West Highway, Hyattsville, Maryland 20782, (301) 436-7087.

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3700 East-West Highway  
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(301) 436-7089

## Selected Key Publications:

National Center for Health Statistics, Schoenborn CA. Health Promotion and Disease Prevention: United States, 1985. *Vital and Health Statistics*, Series 10, No. 163, U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1591].

Stephenson MG, Levy AS, Saas NL, McGarvey WE. 1985 NHIS Findings: Nutrition Knowledge and Baseline Data for Weight-loss Objectives. *Public Health Rep* 102(1):61-67, 1987.

Thornberry OT, Wilson RW, Golden PM. The 1985 Health Promotion and Disease Prevention Survey. *Public Health Rep* 101(1):566-570 1986.

(The above two issues of *Public Health Reports* contain 10 other articles analyzing various topics in the Health Promotion and Disease Prevention Survey.)

# National Health Interview Survey—Supplement on Vitamin and Mineral Supplements

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control, and Center for Food Safety and Applied Nutrition, Food and Drug Administration

**Conducted:** 1986

**Purpose:** Questions were designed to determine the prevalence and quantitative level of vitamin and mineral supplement intake among adults and young children in the United States.

**Target Population:** Civilian noninstitutionalized children aged 2–6 years and adults aged 18 years and over in the United States.

**Design:** Complex, multistage, stratified, clustered sample.

**Sample Size and Response Rate:**

	<i>Sample size</i>	<i>Interviewed</i>	<i>Response rate</i>
Children 2–6 years. . . . .	1,926	1,877	(1)
Adults 18 and over . . . . .	12,200	11,775	(1)

<sup>1</sup>The overall response rate was 93.1 percent. This reflects a 3.5 noninterview rate for all eligible NHIS households and a 3.4 percent noninterview rate for the eligible vitamin and mineral subsample.

**Measures:** Self-report (for adults) and proxy reports (for children) of vitamin or mineral supplements to the diet used during the 2 weeks before interview, including product name and manufacturer, nutrient information from the product label, and dosage.

**Control Variables:** Basic health and demographic information was collected for all members of sample households, including persons sampled for the vitamin and mineral questionnaire.

**Accessibility and Availability:** Public use data tapes. 1986 Vitamin and Mineral Intake Supplement data tape is available for \$200.00 from Ms. Nelma Keen, Chief, Systems Programming Branch, Division of Health Interview Statistics, NCHS, Room 2-44, 3700 East-West Highway, Hyattsville, Maryland 20782, (301) 436-7087.

**Contact Person:** For information on scientific aspects, write or call  
Ms. Abbie Moss  
Health Statistician  
Division of Health Interview Statistics  
National Center for Health Statistics,  
Room 2-44  
Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782  
(301) 436-7089

**Selected Key Publications:**

National Center for Health Statistics, Moss AJ, Levy AS, Kim I, Park YK. Use of Vitamin and Mineral Supplements in the United States: Current Users, Types of Products, and Nutrients. *Advance Data From Vital and Health Statistics*, No. 174 (1989). U.S. Government Printing Office, Washington, D.C. (DHHS Pub. No. (PHS) 89-1250].



# National Health Interview Survey—Supplement on Cancer Epidemiology and Cancer Control

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** 1987

**Purpose:** The survey was designed to gather data on the prevalence of cancer and associated risk factors. Moreover, factors, such as tobacco use; occupational exposure; family cancer history; cancer screening knowledge and practice; knowledge of and attitudes toward cancer; reproduction and hormone use; and diet were studied. The data will be analyzed in collaboration with the National Cancer Institute.

**Target Population:** Civilian noninstitutionalized population aged 18 years and over in the United States.

**Design:** Complex, multistage, stratified, clustered sample, including one randomly selected person 18 years of age or over in each NHIS household; Hispanic persons were oversampled.

**Sample Size and Response Rate:**

<i>Sample size</i>	<i>Interviewed</i>	<i>Response rate</i>
50,000	45,000	90%

**Measures:** Similar to NHIS. Self-reports on a set of basic health and demographic items, with emphasis on factors relating to cancer.

**Control Variables (relating to nutrition):** Intake of vitamins, frequency of intake of 62 food items, knowledge of good diet, changes in diet for health reasons, height, and weight.

**Accessibility and Availability:** Public use data tapes available for \$300.00 from Ms. Nelma Keen, Chief, Systems Programming Branch, Division of Health Interview Statistics, NCHS, Room 2-44, 3700 East-West Highway, Hyattsville, Maryland 20782, (301) 436-7087.

**Contact Person:** Ms. Charlotte Schoenborn  
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National Center for Health Statistics,  
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**Selected Key Publications:** None to date.

# National Health and Nutrition Examination Survey I Epidemiological Followup Study (NHEFS)

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control, and National Institute on Aging in collaboration with other National Institutes of Health and Public Health Service agencies

**Conducted:** 1982–84, 1986, 1987

**Purpose:** The goal of NHEFS is to examine the relationship of baseline clinical, nutritional, and behavioral factors assessed in the first National Health and Nutrition Examination Survey (NHANES I) to subsequent morbidity and mortality.

**Target Population:** 14,407 persons examined in NHANES I who were 25–75 years of age at baseline.

**Design:** Followup on participants of NHANES I who were 25 years of age and over in 1971–75.

## Sample Size and Response Rate:

Total subjects—		
	Sample size	Response rate
In cohort	14,407	
Traced (1982–84)	13,380	92.9%
Interviewed (1982–84)	12,220	84.8%

**Measures:** Personal interviews for survivors and proxy interviews for decedents and incapacitated subjects, including medical history, history of hospitalization, functional status, medication usage, smoking history, alcohol history, psychological status, food frequency, tooth loss, and physical activity; physical measurements of pulse, blood pressure, and weight; collection of death certificates; and collection of hospital and nursing home records for overnight stays.

## Control Variables:

**Individual**—Includes income, age, race, ethnicity, occupation, marital status, education, and current employment.

**Family/household**—Includes household composition, education of head of household, and family income. (Control variables listed above, with exception of individual income, were collected at baseline.)

**Accessibility and Availability:** Public use data tapes, 1982–84, are available from National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession number and prices. Additional data (1986, 1987) to be released.

**Contact Person:** Jennifer H. Madans, Ph.D.  
Deputy Director  
Division of Analysis  
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or  
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Survey Statistician  
Office of Analysis and Epidemiology  
Program  
(301) 436-5978  
National Center for Health Statistics,  
Room 2-27  
Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782

## Selected Key Publications:

Madan JH, Cox CS, Kleinman JC, et al. 10 Years After NHANES I: Mortality Experience at Initial Followup, 1982–84. *Public Health Rep* 101(5):474–481, Sept.–Oct. 1986.

Madan JH, Kleiman JC, Cox CS, et al. 10 Years After NHANES I: Report of Initial Followup, 1982–84. *Public Health Rep* 101(5):465–473, Sept. Oct. 1986.

National Center for Health Statistics, Cohen BB, Barbano HE, Cox CS, et al. Plan and Operation of the NHANES I Epidemiologic Followup Study, 1982–84. *Vital and Health Statistics*. Series 1, No. 22 (1987). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1324].

Schatzkin A, Jones DY, Hoover RN, et al. Alcohol Consumption and Breast Cancer in the NHANES I Epidemiologic Followup Study. *N Engl J Med* 316(19):1169–1173, May 7, 1987.

Schatzkin A, Taylor PR, Carter CL, et al. Serum Cholesterol Cancer in the NHANES I Epidemiology Followup Study. *Lancet* 2(8554):298–301, Aug. 8, 1987.

# National Survey of Family Growth

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1973–74, 1976, 1982, 1988

**Purpose:** The survey provides a wide range of information on fertility, family planning, and aspects of maternal and child health that are closely related to fertility and family planning.

**Target Population:** Women of reproductive age.

**Design:** Personal interviews with women 15–44 years of age. Multistage area probability sample of women in the conterminous United States. Before 1982, never-married women without children were excluded.

**Sample Size and Response Rate:**

<i>Sample size</i>	<i>Response rate</i>
About 8,000	About 80%

**Measures:** Primarily related to fertility trends, family planning practices effectiveness, and sources of advice. Also breast-feeding practices.

**Control Variables:** Race, origin, education, income, and labor force variables.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22160, (703) 487-4650 are listed below:

1973 .....	PB-277054
1976 .....	PB80-219702
1982 .....	PB85-100022

See appendix A for order form.

**Contact Person:** William Mosher, Ph.D.  
Statistician  
Family Growth Survey Branch  
National Center for Health Statistics,  
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Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782  
(301) 436-8731

**Selected Key Publications:**

National Center for Health Statistics, Horn M, Mosher W. Use of Services for Family Planning and Infertility: United States, 1982. *Vital and Health Statistics*, Series 23, No. 13 (1986). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1989].

Mosher W. Fertility and Family Planning in the 1970's: The National Survey of Family Growth. *Fam Plann Perspect* 14(6):314–320, 1982a.

National Center for Health Statistics, Moser W, Bachrach C. Contraceptive Use: United States 1982. *Vital and Health Statistics*, Series 23, No. 12 (1986). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 86-1988].

National Center for Health Statistics, Mosher W, Pratt W. Fecundity, Infertility, and Reproductive Health in the United States, 1982. *Vital and Health Statistics*, Series 23, No. 14 (1987). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 87-1990].

Pratt W, Moser W, Bachrach C, Horn M. Understanding U.S. Fertility: Findings From the National Survey of Family Growth, Cycle III. *Popul Bull* 39(5):1–42, Dec. 1984. (Population Reference Bureau, Inc., 777 14th St., N.W., Washington, D.C.)



# National Maternal and Infant Health Survey (NMIHS)

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1988–90

**Purpose:** The NMIHS will be used to collect nationally representative data covering natality and fetal and infant mortality. The major areas of investigation are causes of low birth weight infants and infant deaths, barriers to prenatal care, the effects of maternal smoking, alcohol and drug use, and the use of public programs by mothers and infants.

**Target Population:** Women of reproductive age who delivered live births, still births, and deceased infants in 1988.

**Design:** National probability sample of registered births and fetal and infant deaths. Data are collected by a combination of mail, telephone, and personal interviews.

**Sample Size and Response Rate:** From Vital Records—10,000 live births, 4,000 fetal deaths of 28 weeks or more of gestation, and 6,000 infant deaths. A total of 60,000 mothers, hospitals where births and infant deaths occurred, and providers of prenatal care will be followed back with mail questionnaires and interviews that will be linked with the sampled vital records.

**Measures:** Height, weight, maternal weight gain, hematocrit, hemoglobin, blood pressure, vitamin and mineral supplement use by mothers and infants, breastfeeding practices, alcohol consumption, and nutrition-related health problems (nausea, diarrhea, constipation).

**Control Variables:** Items include age, race, education, income, type and location of prenatal care, participation in Women, Infants, and Children (WIC) program, and occupation.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession numbers and prices.

**Contact Person:** Paul Placek, Ph.D.  
Chief, Followback Survey Branch  
Division of Vital Statistics  
National Center for Health Statistics,  
Room 1-44  
Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782  
(301) 436-8954

## Selected Key Publications:

Keppel, KG, Taffel S. Maternal Smoking and Weight Gain in Relation to the Risk of Fetal and Infant Death. In: *Smoking and Reproduction Health* Rosenberg, MJ (ed.). PSG Publishing Co. Inc., Littleton, Massachusetts, 1987, pp. 80–85.

Kleinman, JC, Madans, JH. The Effects of Maternal Smoking, Physical Stature and Educational Attainment on the Incidence of Low Birthweight. *Am J Epidemiol* 121(6):843–855, 1985.

National Center for Health Statistics, Taffel, S. Maternal Weight Gain and the Outcome of Pregnancy, United States, 1980. *Vital and Health Statistics*. Series 21, No. 44 (1986). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 86-1922].

Taffel, SM, Keppel, KG. Advice About Weight Gain During Pregnancy and Actual Weight Gain. *Am J Public Health* 76(12):1396–1399, 1986.

# National Mortality and Natality Followback Survey (NMNFS)

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1987

**Purpose:** This survey is intended to augment the information on characteristics of decedents by inquiring more fully into various aspects of concern to policymakers, health care providers and administrators, epidemiologists, biomedical researchers, demographers, and the general public.

**Target Population:** Adults 25 years of age or over, persons dying of heart disease or rare cancers, and native Americans.

**Design:** Probability sample of all death certificates and review death certificates, mail survey (survivor), proxy (next of kin), and hospital records.

**Sample Size and Response Rate:**

*Sample size*

18,733

*Response rate*

89%

**Measures:** Cause of death, height, weight, medical history, medical care in last year of life, dietary patterns, lifestyle behaviors, social and demographic characteristics.

**Control Variables:** Sex, age, race, and cause of death.

**Accessibility and Availability:** A preliminary data tape for the 1986 NMFS is available from the National Center for Health Statistics. It contains data from death certificates and informant survey questionnaires. A second data tape will be available in the spring of 1990 from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. The tape will include data from the facility abstract records.

**Contact Person:** Eve Powell-Griner, Ph.D.  
Project Director  
Office of Vital and Health Statistics  
Systems  
National Center for Health Statistics,  
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Centers for Disease Control  
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Hyattsville, Maryland 20782  
(301) 436-7107

**Selected Key Publications:** Advanced data reports in production include the following topics: death from diseases of heart, cerebrovascular deaths, deaths from cancer, deaths from external causes, and characteristics of persons dying from AIDS.

# Vital Statistics System

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** Annually

**Purpose:** The purpose of the basic vital statistics program is to formulate and maintain a cooperative and coordinated vital records and vital statistics system, promoting high standards of performance.

**Target Population:** Total U.S. population.

**Design:** Vital registration system.

**Sample Size and Response Rate:** Since 1985, complete coverage of all births and deaths in the United States.

**Measures:** The number of births, deaths, and fetal deaths in each State.

**Control Variables:** Wide range of demographic and health information such as age, race, sex, occupation, marital status, birth weight, and cause of death. Beginning in 1989, data on weight gain during pregnancy, medical risk factors for pregnancy, and decedent's education will be collected.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession numbers and prices.

**Contact Person:** Harry Rosenberg, Ph.D  
(mortality information)  
Chief, Mortality Statistics  
(301-436-8884)  
Mr. Robert Heuer  
(natality information)  
Chief, Marriage and Divorce Statistics  
(301) 436-8954  
Division of Vital Statistics  
National Center for Health Statistics,  
Room 1-44  
Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782

## Selected Key Publications:

National Center for Health Statistics. Annual Summary of Births, Marriages, Divorces and Deaths: United States, 1986. *Monthly Vital Statistics Report* Vol. 35, No. 13 (1986). [DHHS Pub No. (PHS) 86-1120].

National Center for Health Statistics. *Vital Statistics of the United States, 1986* Vol. II Mortality (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1114].



# National Hospital Discharge Survey (NHDS)

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** Annually

**Purpose:** This survey is intended to provide data on patients discharged from hospitals located in the 50 States and in the District of Columbia. Specifically, it provides information on the utilization of the Nation's short-stay hospitals and on the nature and treatment of illnesses among the hospital population.

**Target Population:** All inpatients.

**Design:** Within the universe of all short-stay hospitals, a controlled selection technique was used to select hospitals within 28 strata based on size-by-region classes. Data are abstracted from face sheets of hospital medical records sampled from these hospitals.

**Sample Size and Response Rate:** NA

**Measures:** The NHDS contributes to nutrition monitoring by providing information on hospitalizations resulting from nutrition-related diseases. Information such as diagnosis and length of stay is also recorded.

**Control Variables:** Sex, age, race, marital status, diagnosis, and discharge status.

**Accessibility and Availability:** Public use data tapes, are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession numbers and prices.

**Contact Person:** Mr. Robert Pokras  
Survey Statistician  
Division of Health Care Statistics  
National Center for Health Statistics,  
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Hyattsville, Maryland 20782  
(301) 436-7125

## Selected Key Publications:

National Center for Health Statistics, Detailed Diagnoses and Procedure for Patients Discharged From Short-Stay Hospitals, United States, 1986. *Vital and Health Statistics*. Series 13, No. 95 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1756].

National Center for Health Statistics, Graves EJ. Utilization of Short-Stay Hospitals, United States, 1986. Annual Summary. *Vital and Health Statistics*. Series 13, No. 96 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1757].

# National Ambulatory Medical Care Survey

**Sponsoring Agency:** National Center for Health Statistics, Centers for Disease Control

**Conducted:** 1973 through 1981, 1985, planned annually from 1989.

**Purpose:** To gather and disseminate statistical data about ambulatory medical care provided by office-based physicians to the population of the United States.

**Target Population:** Visits to physicians in office practice.

**Design:** Physicians are contacted by telephone, mail, and personal interview. Multistage, stratified, probability clustered sample of licensed physicians in office-based, patient care. Annual cycles with 1 week of data collection throughout year.

**Sample Size and Response Rate:** Varies, 1989:

	Sample size	Response rate
Physicians .....	2,500	70%
Patient visits .....	40,000	80%

**Measures:** Reason for visit and diagnosis.

**Control Variables:** Patient demographics and physician characteristics.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession numbers and prices.

**Contact Person:** Mr. James Delozier  
Chief, Ambulatory Care Statistics  
Division of Health Care Statistics  
National Center for Health Statistics,  
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Centers for Disease Control  
3700 East-West Highway  
Hyattsville, Maryland 20782  
(301) 436-7132

## Selected Key Publications:

National Center for Health Statistics, Tenney JB, White KL, Williamson JW. National Ambulatory Medical Care Survey: Background and Methodology. *Vital and Health Statistics*. Series 2, No. 61 (1974). U.S. Government Printing Office, Washington, D.C. [DHEW Pub. No. (HRA) 74-1335].

National Center for Health Statistics, Gagnon RO, Delozier JE, McLemore T. The National Ambulatory Medical Care Survey, United States, 1979 Summary. *Vital and Health Statistics*. Series 13, No. 66 (1982). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 82-1727].

National Center for Health Statistics, Nelson C, McLemore T. The National Ambulatory Medical Care Survey. United States, 1975-81 and 1985 Trends. *Vital and Health Statistics*. Series 13, No. 93 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1754].

National Center for Health Statistics, Bryant E, Shimizu I. The National Ambulatory Medical Care Survey. Sample Design, Sampling Variance, and Estimation Procedures for the National Ambulatory Medical Care Survey. *Vital and Health Statistics*. Series 2, No. 108 (1988). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 88-1382].

# National Nursing Home Survey

**Sponsoring Agency:** National Center for Health Statistics,  
Centers for Disease Control

**Conducted:** 1985, 1977, and 1973-74

**Purpose:** To collect national baseline data on the characteristics of the nursing home, its services, residents, and staff for all nursing homes in the Nation.

**Target Population:** Individuals residing in nursing homes currently or last year.

**Design:** Resident data are collected by reviewing medical records and questioning the nurse who usually provides care for the resident. Residents are not interviewed directly.

**Sample Size and Response Rate:** Varies, 1985:

	Sample size	Response rate
Nursing homes . . . . .	1,079	93%
Residents . . . . .	5,243	97%
Registered nurses . . . . .	2,763	80%
Discharged residents . . . . .	6,023	95%

**Measures:** Diagnoses, functional status, charges for care, and discharge status.

**Control Variables:** Resident's demographic characteristics and nursing home characteristics.

**Accessibility and Availability:** Public use data tapes are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650. See appendix A for accession numbers and prices.

**Contact Person:** Esther Hing  
Mathematical Statistician  
Division of Health Care Statistics  
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Hyattsville, Maryland 20782  
(301) 436-8830

## Selected Key Publications:

National Center for Health Statistics, Meiners MR. Selected Operating and Financial Characteristics of Nursing Homes, United States, 1973-74 National Nursing Home Survey. *Vital and Health Statistics*. Series 13, No. 22 (1975). U.S. Government Printing Office, Washington, D.C. [DHEW Pub. No. (HRA) 76-1773].

National Center for Health Statistics, Van Nostrand JF, Zappolo A, Hing E, et al. The National Nursing Home Survey, 1977 Summary for the United States. *Vital and Health Statistics*. Series 13, No. 43 (1979). Public Health Service. U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 79-1794].

National Center for Health Statistics, Hing E, Sekscenski E, Strahan G. The National Nursing Home Survey, 1985 Summary for the United States. *Vital and Health Statistics*. Series 13, No. 97 (1989). U.S. Government Printing Office, Washington, D.C. [DHHS Pub. No. (PHS) 89-1758].



# Pregnancy Nutrition Surveillance System (PNSS)

**Sponsoring Agency:** Division of Nutrition, Center for Chronic Disease Prevention and Health Promotion (CCDPHP), Centers for Disease Control

**Conducted:** Continuous data collection

**Purpose:** To monitor nutrition-related problems and behavioral risk factors associated with low birth weight among high-risk prenatal populations. The emphasis is to quantify prevalent and preventable nutrition-related problems and behavioral risk factors for targeting low birth weight interventions.

**Target Population:** Low-income, high-risk pregnant women.

**Design:** Simple, key indicators of pregnancy nutritional status and behavioral risk factors are monitored using clinic data from participating States. The data are collected on a convenience population of low income, high-risk pregnant women who participate in publicly funded prenatal nutrition and food assistance programs.

**Sample Size and Response Rate:** The coverage of PNSS reflects the number of pregnant women who participate in the programs contributing to the surveillance system. In some States, this represents 100 percent of the participating pregnant women.

**Measures:** Simple, key indicators of pregnancy nutritional status, behavioral risk factors, and birth outcome are measured using readily available clinical data. Pre-gravid weight status, anemia (hemoglobin, hematocrit), pregnancy behavioral risk factors (smoking, drinking), low birth weight (<2,500 grams) and other indicators are monitored. Breastfeeding data are also collected.

**Control Variables:** State, county, clinic, reason for attending clinic, date of measurement, individual identification, date of birth, ethnic origin, marital status, and education.

**Accessibility and Availability:** PNSS data are returned to individual participating States annually. Tabulations of combined PNSS data from all participating States and territories are also produced annually. In the future, PNSS software will be developed for use by States interested in producing these reports independently.

**Contact Person:** Colette Zyrkowski, M.P.H., R.D.  
Public Health Nutritionist  
Division of Nutrition, CCDPHP  
Centers for Disease Control  
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Atlanta, Georgia 30333  
(404) 639-3075

## Selected Key Publications:

Centers for Disease Control. *Nutrition Surveillance: Annual Summary 1984* (in press).

# Pediatric Nutrition Surveillance System (PedNSS)

**Sponsoring Agency:** Division of Nutrition, Center for Chronic Disease Prevention and Health Promotion (CCDPHP), Centers for Disease Control

**Conducted:** Continuous data collection

**Purpose:** To monitor simple, key indicators of nutritional status among low-income, high-risk infants and children who participate in publicly funded health, nutrition, and food assistance programs.

**Target Population:** Low-income, high-risk children 0-17 years, especially those 0-5 years.

**Design:** Simple, key indicators of nutrition status are continuously monitored in States using clinic data from a convenience population of low-income children who participate in publicly funded health, nutrition, and food assistance programs.

**Sample Size and Response Rate:** The coverage of PedNSS reflects the number of clinic visits in participating programs. Over 2.7 million records from 36 States plus the District of Columbia, Puerto Rico, and Navajo Nation were submitted for analysis during FY 1988.

**Measures:** Anthropometry (height, weight), birth weight (below 2500 grams), and hematology (hemoglobin, hematocrit) are measured.

**Control Variables:** State, county, clinic, reason for attending clinic, date of measurement, individual identification, date of birth, sex, ethnic origin, and type of visit.

**Accessibility and Availability:** PedNSS data are returned to individual participating States monthly, quarterly, and/or annually as requested. Several States produce these reports independently using CDC PedNSS software. Tabulations of combined PedNSS data from all participating States and territories are also produced quarterly and annually.

**Contact Person:** Faye L. Wong, M.P.H., R.D.  
Chief, Field Services Branch  
Division of Nutrition, CCDPHP  
Centers for Disease Control  
1600 Clifton Rd., N.E. (M/S-A42)  
Atlanta, Georgia 30333  
(404) 639-3075

## Selected Key Publications:

Centers for Disease Control. Nutritional Status of Minority Children, United States, 1986. *Morbidity and Mortality Weekly Report* 36(23):366-369, June 19, 1987.

Centers for Disease Control. *Nutrition Surveillance: Annual Summary* 1984 (in press).

Gayle HD, Dibley MJ, Marks JS, Trowbridge FL. Malnutrition in First Two Years of Life. *Am J Dis Child* 141:531-534, May 1987.

Peck RE, Marks JS, Dibley MJ, et al. Birth Weight and Subsequent Growth Among Navajo Children. *Public Health Rep* 102(5):500-507, Sept.-Oct. 1987.

Yip R, Binkin NJ, Fleshood L, Trowbridge FL. Declining Prevalence of Anemia Among Low Income Children in the United States. *JAMA* 258(12):1619-1623, Sept. 25, 1987.

Yip R, Binkin NJ, Trowbridge FL. Altitude and Childhood Growth. *J Pediatr* 113(3):486-489, Sept. 1988.

## Surveillance of Severe Pediatric Undernutrition (SSPUN)

**Sponsoring Agency:** Division of Nutrition, Center for Chronic Disease Prevention and Health Promotion (CCDPHP), Centers for Disease Control

**Conducted:** Continuous data collection

**Purpose:** SSPUN is a State-based pilot effort to obtain a population-based estimate of preschool children who have severe pediatric undernutrition, including the etiologies and the risk factors for the problem. This is a new surveillance effort at CDC. Four States were awarded cooperative agreement funds to determine the feasibility of monitoring the prevalence, etiologies, and risk factors of severe pediatric undernutrition.

**Target Population:** Low-income, high-risk children 6 months through 5 years of age. Children of other ages with severe pediatric undernutrition may be reported but are not the focus of this surveillance effort.

**Design:** Children with SPUN will be identified through multiple reporting sources (including hospitals) in the catchment areas selected for surveillance in the funded States.

**Sample Size and Response Rate:** An effort will be made to obtain a population-based estimate of severe pediatric undernutrition in the catchment area selected for surveillance through a variety of strategies.

**Measures:** Anthropometry (height, weight) and anemia (hematocrit or hemoglobin). Additional measures may include absolute weight loss, Kwashiorkor, and clinical nutrition deficiencies (vitamins A, C, D, thiamin, riboflavin).

**Control Variables:** State, county, child's descriptive information (SSPUN central registry number, date of birth, ethnic origin, sex, birth weight, recent illness, chronic disease, hospitalization, food program participation, child abuse and neglect), mother's descriptive information (date of birth, marital status, education), primary caretakers' descriptive information (relationship to SSPUN child, stress), and household descriptive information (number and ages of household members, food program participation, income).

**Accessibility and Availability:** Data will not be available from the four demonstration States until 1990.

**Contact Person:** Faye L. Wong, M.P.H., R.D.  
Chief, Field Services Branch  
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**Selected Key Publications:** None to date.



# Behavioral Risk Factor Surveillance System (BRFSS)

**Sponsoring Agency:** Office of Surveillance and Analysis, Center for Chronic Disease Prevention and Health Promotion (CCDPHP), Centers for Disease Control

**Conducted:** Annually since 1984

**Purpose:** The state-based behavioral risk factor surveillance system assesses the prevalence of personal health practices. These behaviors are related to the leading causes of death. Behavioral risk factor surveillance has been used by State health departments to plan, initiate, and guide health promotion and disease programs, and to monitor their progress over time.

**Target Population:** Adults over 18 years of age residing in households with telephones in 35 participating States.

**Design:** Multistage, cluster telephone survey based on the Waksberg method.

## Sample Size and Response Rate:

Year	Average State sample size	Total number of States	Average sample size	Response rate
1981-83 . . . . .	797	29	23,113	86%
1984 . . . . .	675	17	11,480	83%
1985 . . . . .	1,174	22	25,830	83%
1986 . . . . .	1,182	26	30,730	86%
1987 . . . . .	1,578	34	53,652	83%
1988 . . . . .	1,600	41	<sup>1</sup> 57,000	NA

<sup>1</sup>Estimate.

**Measures:** (via telephone survey) Height; weight; smoking; alcohol use; weight control practices; diabetes; preventive health problems; mammography; pregnancy; and cholesterol screening practices, awareness, and treatment.

**Control Variables:** State, date of birth, sex, race and ethnicity, education, employment status, and income.

**Accessibility and Availability:** BRFSS reports are returned to individual participating States annually. The data are regularly published.

**Contact Person:** Gary Hogelin, M.P.A.  
Acting Chief, Behavioral Surveillance  
Branch  
Office of Surveillance and Analysis,  
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1600 Clifton Rd., N.E. (M/S-F05)  
Atlanta, Georgia 30333  
(404) 639-2752

## Selected Key Publications:

Centers for Disease Control. Prevalence of Overweight in Selected States—Behavioral Risk Factor Surveillance, 1986. *Morbidity and Mortality Weekly Report* 37(1):9-11, Jan. 15, 1988.

Centers for Disease Control. The Behavioral Risk Factor Surveillance System—1981-87. Reprints from the *Morbidity and Mortality Weekly Report* Oct. 1, 1987.

Forman MR, Trowbridge FL, Gentry EM, et al. Overweight Adults in the United States: The Behavioral Risk Factor Surveys. *Am J Clin Nutr* 44(3):410-416, Sept. 1986.

Gentry EM, Kalsbeck WD, Hogelin GC, et al. The Behavioral Risk Factor Surveys: II. Design, Methods, and Estimates From Combined States Data. *Am J Prev Med* (6):9-14, 1985.

Williamson DF, Forman MR, Binkin NJ, et al. Alcohol and Body Weight in United States Adults. *Am J. Public Health* 77(10):1324-1330, Oct. 1987.

# Nutritional Evaluation of Military Feeding Systems and Military Populations

**Sponsoring Agency:** U.S. Army Research Institute of Environmental Medicine (USARIEM), Department of Defense

**Conducted:** Ongoing since 1985

**Purpose:** The results of these studies are used to determine the nutritional adequacy of the diet consumed by male and female military personnel in both a peacetime garrison situation and during sustained physically demanding military training exercises at all climatic extremes. Based on the results, standardized recipes and menus, the cook training program, and specifications for food items and combat rations purchased by the DOD are modified to improve nutritional health and maintain optimal physical and mental performance of military personnel.

**Target Population:** Primarily male and female enlisted personnel of the Army, Navy, Marine Corps, and Air Force assigned to military installations in the continental United States, Alaska, Hawaii, and potentially overseas. Populations studied to date have included Army basic trainees at Fort Jackson, South Carolina; Non-Commissioned Officer Academy trainees at Fort Riley, Kansas; enlisted personnel assigned to Fort Lewis, Washington, and Fort Devens, Massachusetts; Army units training at Pohakuloa Training Area, Hawaii, Fort Wainwright and Fort Greely, Alaska; Special Forces units training in the White Mountains of Vermont; and Marine units training at the Mountain Warfare Training Area, Pickle Meadows, California. Future studies planned include a multiyear evaluation of a prototype nutritional health and fitness program at Fort Polk, Louisiana, including monitoring changes in nutrient intakes and nutritional status of military personnel and their spouses and dependents. A comprehensive nutritional assessment is also planned for cadets and their dining facility at the U.S. Army Military Academy at West Point, New York.

**Design:** Varies with objectives of each specific study.

**Sample Size and Response Rate:** The sample size has varied between 20 and 240 personnel depending on objectives of each specific study. Usually 90–99 percent of all subjects who voluntarily participate complete all aspects of data collection.

**Measures:** Total daily food and fluid intakes usually for periods of 7–14 days (sometimes 4–6 weeks). Food intakes are collected by visual observation or dietary record-interview technique. Other measures usually included are body weight and body composition changes,

hydration status, blood lipid profile, and food acceptability (hedonic rating) data. Frequently, muscle strength and aerobic endurance, cognitive function, energy expenditure (doubly labeled water method), physical activity patterns (wrist accelerometer), biochemical assessment of vitamin status, and nutritional knowledge and attitude data are also measured. Nutrient intakes are derived using food intake and from chemical analyses of food items and rations, monitoring recipes as prepared by cooks in dining facilities, and USDA derived foods composition data files. Military Recommended Dietary Allowances (based upon RDA's) are used as reference to assess nutritional adequacy of diets consumed.

## Control Variables:

*Feeding system*—Garrison dining facility, field feeding system, and type of combat ration or supplement.

*Training environment*—Hot-dry, hot-humid, cold and temperate climates, mountain terrain.

*Individuals*—Gender, race, physical activity level, age; active, reserve, trainees, and special operations personnel.

**Accessibility and Availability:** Results are published as either USARIEM Technical Reports or are submitted to scientific journals. Raw or summarized data tapes are not available. A list of publications and technical reports is available from the contact person.

**Contact Person:** LTC E. Wayne Askew, Ph.D.  
Director, Military Nutrition Division  
U.S. Army Research Institute of  
Environmental Medicine  
Natick, Massachusetts 01760-5007  
(508) 651-4874

## Selected Key Publications:

Askew EW, Munro I, Sharp MA, et al. *Nutritional Status and Physical and Mental Performance of Special Operations Soldiers Consuming the Ration, Lightweight or the Meal, Ready-to-Eat Military Field Ration During a 30-Day Field Training Exercise*. USARIEM Technical Report No. T7-87, Mar. 1987.

Rose RW, Baker CJ, Wisnaskas W, et al. *Dietary Assessment of the U.S. Army Basic Trainees at Ft. Jackson, SC*. USARIEM Technical Report T6-87, Jan. 1989.

Schnakenberg DD, Carlson DE, Sawyers M, et al. *Nutritional Evaluation of a New Combat Field Feeding System for the Army*. *Army Science Conference Proceedings* 4:69–80, June 17–19, 1986.

# Nutritional Status Surveys and Surveillance Systems

**Sponsoring Agency:** U.S. Agency for International Development

**Conducted:** 1977–90

**Projected Purposes:** To develop and refine rapid, simple, low-cost procedures for (1) assessing the nature, magnitude, and regional distribution of malnutrition in populations; (2) determining patterns of family food consumption and individual dietary intake; and (3) maintaining a nutrition surveillance system capable of early warning of nutrition problems. To assist selected less-developed countries in the implementation of the above activities.

**Target Population:** Depending on country selected, regional representation for national sample with emphasis on vulnerable groups, for example, women, infants, and children.

**Design:** Key indicators of nutritional status, including clustered sampling and convenience samples. Use of secondary data where appropriate, for example, clinic, agriculture.

**Sample Size and Response Rate:** The coverage of surveys conducted under this project is variable and dependent on conditions of accessibility in each country.

**Measures:** Variable between countries, however, usually including anthropometrics, dietary surveys of both household and individual related food consumption data, and agricultural production information. Clinical measures and laboratory analyses dependent on country's facilities.

**Control Variables:** Clinic attendance, individual identification, date of birth, changes in nutritional status.

**Accessibility and Availability:** Identification of variations in nutritional status and possible causation factors in different population groups assist countries in developing analytical plans of action for amelioration of deficiency situations. Data are maintained in country where collected to assist in development of surveillance system in order to monitor changes. All surveys are carried out at the behest of the cooperating country and with the support of relevant ministries. In-country training carried out by this project assists in the development of a cadre of qualified individuals to analyze data collected and to continue surveillance activities.

**Contact Person:** Frances R. Davidson, Ph.D., M.S.C.  
Nutrition Advisor  
Office of Nutrition  
Agency for International Development  
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## Selected Key Publications:

National surveys for 15 countries and occasional papers on selected topics for nutritional surveys and surveillance.



## II. Food and Nutrient Consumption Measurements

### Nationwide Food Consumption Survey (NFCS)

**Sponsoring Agency:** Human Nutrition Information Service (HNIS), U.S. Department of Agriculture

**Conducted:** Every 10 years; most recently, 1987–88

**Purpose:** Survey data are used to describe food consumption behavior and to assess the nutritional content of diets for their implications on policies relating to food production and marketing, food safety, food assistance, and nutritional education.

**Target Population:** Private households in the 48 conterminous States and individuals residing in those households. Households and individuals of all incomes (basic survey) and with incomes consistent with eligibility for the Food Stamp Program (low-income survey) were surveyed in 1987–88 as they were in 1977–78. In 1977–78, but not 1987–88, special surveys targeted populations in Alaska, Hawaii, and Puerto Rico and in households in the 48 conterminous States with elderly person(s).

**Design:** Multistage stratified area probability samples of the defined populations.

**Sample Size and Response Rate:** (Target for 1987 survey)

	Households	Individuals	Response rate
Basic survey. . . . .	6,000	15,000	NA
Low-income survey . . . . .	3,600	10,100	NA

**Measures:** Food used from home food supplies during 1 week by entire household and food ingested by individual household members at home and away from home for 3 consecutive days. Nutrients available from food used by the households and nutrients ingested by individual household members are derived using appropriate food composition data files developed from HNIS's National Nutrient Data Bank. Recommended Dietary Allowances are used as reference points in assessing the nutrient content of food used by households and foods ingested by individuals.

**Control Variables:**

*Individual*—Sex, race, ethnicity, and age.

*Household*—Income, size, education of male and female heads, employment of male and female heads, cash assets, region, and urbanization.

**Accessibility and Availability:** Results from the 1987–88 NFCS will be available in a series of technical reports of the following four types:

- Methodology publications—detailed information on the sample design, survey methodology, and data uses.
- Household publications—statistical tables and a brief discussion on food used by households and dietary levels in households.
- Individual intake publications—statistical tables and a brief discussion on the food and nutrient intakes by individual household members.
- Standard error estimates.

In addition to the technical publication, a series of popular publications will be prepared. Both the technical and the popular publications will be available from the U.S. Government Printing Office. The raw data will be available on data tapes from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. (See appendix B for accession numbers and prices.)

**Contact Person:** Robert Rizek, Ph.D.  
Director, Nutrition Monitoring  
Division  
Human Nutrition Information Service  
U.S. Department of Agriculture  
6505 Belcrest Road  
Hyattsville, Maryland 20782  
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#### Selected Key Publications:

Hama MY, Riddick HA. Nationwide Food Consumption Survey 1987. *Fam Econ Rev* 2:24–27. U.S. Department of Agriculture, 1988.

Peterkin BB, Rizek RL, Tippet KS. Nationwide Food Consumption Survey, 1987. *Nutr Today* 23(1):18–24, Jan.–Feb. 1988.

Rizek RL, Tippet KS. USDA Surveys: Past and Present. *Proceedings of Twelfth National Nutrient Databank Conference*, Houston, Texas, April 12–15, 1987. The CBORD Group, Inc., Ithaca, NY, pp. 19–23, 1988.

# Continuing Survey of Food Intakes by Individuals (CSFII), 1985 and 1986

**Sponsoring Agency:** Human Nutrition Information Service, U.S. Department of Agriculture

**Conducted:** 1985 (4/1/85–3/30/86) and 1986 (4/1/86–3/30/87)

**Purpose:** The Continuing Surveys of Food Intakes by Individuals are part of USDA's system of Nationwide Food Consumption Surveys (NFCS), conducted between the larger decennial NFCS. Their primary purpose was to provide timely information on U.S. diets and diets of population groups of concern and to indicate changes in diets from previous surveys. Another purpose was to provide the basis for assessing "usual" diets as measured by several days' data spread over the year and for studying how diets vary over time for individuals and groups of individuals.

**Target Population:** Persons of selected sex and age residing in the 48 conterminous States in private households with incomes at any level (basic survey) and with incomes at or below 130 percent of the poverty guidelines (low-income survey): in 1985, women 19–50 years, children 1–5 years, and men 19–50 years; and in 1986, women 19–50 years and children 1–5 years.

**Design:** Multistage, stratified area probability samples drawn using a sampling frame organized using estimates of the U.S. population in 1985.

## Sample Size and Response Rate:

Year	Eligible households	Respondent households	Response rate
1985:			
Basic . . . . .	1,893	1,341	71%
Low income. . . . .	2,176	1,916	88%
1986:			
Basic . . . . .	1,722	1,351	79%
Low income. . . . .	1,386	1,223	88%

**Measures:** Food intakes from six 24-hour recalls collected by interview at about 2-month intervals during the year. Nutrient intakes derived using food intakes and special food composition data files developed from HNIS's National Nutrient Data Bank. Recommended Dietary Allowances were used as reference points in assessing diets.

## Control Variables:

**Individual**—Employment status, education, race, ethnicity, height, and weight.

**Household**—Location, date of interview, size of household, income and its sources, and tenancy.

**Accessibility and Availability:** Results from the 1985 and 1986 surveys are summarized in nine statistical reports available from the U.S. Government Printing Office. The raw data are available on data tapes from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. (See appendix B for accession numbers and prices.) Numerous journal articles by USDA staff and by University cooperators have been published. A list of available publications and data tapes is available from the contact person.

**Contact Person:** Robert Rizek, Ph.D.  
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## Selected Key Publications:

Haines PS, Guilkey DK, Popkin BM. Modeling Food Consumption Decision as a Two-Step Process. *Am J Agri Econ* 7(3):543:522, 1988.

Peterkin BB. Eating Patterns—What's to Be Done About Them. *What Is America Eating?* Food and Nutrition Board, National Academy of Sciences. Washington, D.C.: National Academy Press, 1986. pp. 158–161.

Rizek RL. First Result From USDA's Continuing Survey of Food Intakes by Individuals. *J Am Diet Assoc* 86(6):788, 1986.

U.S. Department of Agriculture. *Nationwide Food Consumption Survey, Continuing Survey of Food Intakes by Individuals, Women 19–50 Years and Their Children 1–5 Years, 1 Day, 1985*. NFCS, CSFII Report No. 85-1, 1985. 102 pp.

U.S. Department of Agriculture. *Nationwide Food Consumption Survey, Continuing Survey of Food Intakes by Individuals, Low-Income Women 19–50 Years and Their Children 1–5 Years, 4 Days, 1985*. NFCS, CSFII Report No. 85-5, 1988. 220 pp.

# Continuing Survey of Food Intakes by Individuals (CSFII), 1989–1996

**Sponsoring Agency:** Human Nutrition Information Service, U.S. Department of Agriculture

**Conducted:** 1989 (4/1/89–3/31/90); each year the survey will begin on 4/1 and continue for 1 year

**Purpose:** Part of USDA's system of Nationwide Food Consumption Surveys (NFCS), CSFII is designed to measure levels and changes in the food and nutrient content and nutritional adequacy of U.S. diets on a continuing basis. The ability to track and forecast nutritional problems on a continuing basis is increasingly important as Americans respond to shifts in factors that affect diet, such as employment, family composition, income, and concerns about diet and health relationships.

**Target Population:** Men, women, and children of all ages residing in the 48 conterminous States in private households with incomes at any level (basic survey) and with incomes at or below 130 percent of the poverty guidelines (low-income survey). The survey results will be reported using a 2-year to 5-year moving-average approach. Annual estimates for both men and women 20–49 years of age will be provided after 2 years, and those for other sex-age groups will be provided after 3 to 5 years. The use of the moving average permits annual data reporting and minimizes costs by maintaining a smaller sample size than would otherwise be possible.

**Design:** Multistage, stratified area probability samples drawn using a sampling frame organized using estimates of the U.S. population in 1988.

## Sample Size Response Rate:

<i>Year</i>	<i>Planned sample</i>	<i>Response rate</i>
1989:		
Basic . . . . .	1,500	NA
Low Income . . . . .	750	NA
1990–1996:		
Basic . . . . .	1,500	NA
Low income. . . . .	750	NA

**Measures:** The kinds and amounts of food ingested at home and away from home by individual household members are reported for 3 consecutive days using a 1-day recall in an in-person interview and a 2-day diary. Nutrient intakes are derived using food intakes and special food composition data files developed from USDA's National Nutrient Data Bank. Recommended Dietary Allowances are used as reference points in assessing diets. (See also: Diet-Health Knowledge Survey.)

## Control Variables:

*Individual*—Sex, race, ethnicity, and age.

*Household*—Income, size, education of male and female heads, employment of male and female heads, cash assets, region, and urbanization.

**Accessibility and Availability:** Technical reports and data tapes will be available.

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**Selected Key Publications:** None to date.



# Total Diet Study (TDS)

**Sponsoring Agency:** Food and Drug Administration

**Conducted:** Annually; last conducted in 1988

**Purpose:** The TDS was used to assess the levels of various nutritional elements and organic and elemental contaminants in the U.S. food supply and in the representative diets of specific age-sex groups and to monitor trends in the levels and consumption of these substances over time. The Selected Minerals in Food Survey is the component of the TDS that estimates the level of 11 essential minerals in representative diets of specific age-sex groups.

**Target Population:** Eight age-sex groups: infants, young children, male and female teenagers, male and female adults, and male and female older persons.

**Design:** 234 foods are collected from retail markets in urban areas, prepared for consumption, and analyzed for nutritional elements and contaminants four times each year. Representative diets of the specific age-sex groups, based on consumption patterns indicated by 1977–78 NFCS and NHANES II, are used to estimate daily intake of the nutritional elements and contaminants.

**Sample Size and Response Rate:** Not applicable.

**Measures:** Nutritional elements and contaminants in foods and estimates of daily intake of these substances for eight age-sex groups.

**Control Variables:** Age and sex.

**Accessibility and Availability:** Results are published in the literature approximately every 2 years.

**Contact Person:** Jean Pennington, Ph.D., R.D.  
Associate Director for Dietary Surveillance  
Division of Nutrition  
Food and Drug Administration  
200 C Street, S.W.  
Washington, D.C.  
(202) 245-1064

## Selected Key Publications:

Pennington JAT. Revision of the Total Diet Study Food List and Diets. *J Am Diet Assoc* 82:166–173, 1983.

Pennington JAT, Gunderson EL. A History of the Food and Drug Administration's Total Diet Study, 1961 and 1987. *J Assoc Off Anal Chem* 70:772–782, 1987.

Pennington JAT, Wilson DB, Newell RF, et al. Selected Minerals in Food Surveys, 1974, 1981–82. *J Am Diet Assoc* 84:771–782, 1984.

Pennington JAT, Wilson DB, Young BE, et al. Mineral Content of Food and Total Diets: The Selected Minerals in Food Surveys, 1982 to 1984. *J Am Diet Assoc* 86:876–891, 1986.

Pennington JAT, Young BE, Wilson DB, et al. Mineral Content of Market Samples of Fluid Whole Milk. *J Am Diet Assoc* 87:1036–1042, 1987.

Pennington JAT, Young BE, Wilson DB. Nutritional Elements in U.S. Diets: Results From the Total Diet Study, 1982 to 1986. *J Am Diet Assoc* 89:659–664, 1989.

# Vitamin and Mineral Intake Survey

**Sponsoring Agency:** Food and Drug Administration

**Conducted:** Last conducted in 1980

**Purpose:** The survey was conducted to quantitatively assess the nutrient uptake from vitamin and mineral supplements in the United States and to examine the characteristics of supplement users by supplement intake patterns. The survey was used as the model for the 1986 National Health Interview Survey on Vitamin and Mineral Supplements. Data from the two surveys may be useful to establish trends in supplement usage patterns.

**Target Population:** Civilian noninstitutionalized adults (age 16 and over).

**Design:** Telephone interviews with a national probability age-stratified sample.

## Sample Size and Response Rate:

	Sample size	Response rate
Residential telephone sample . . . . .	7,986	
Number screened for vitamin and mineral supplement use . . . . .	6,409	80%
Number of vitamin and mineral supplement users interviewed <sup>1</sup> . . . . .	2,991	47%

<sup>1</sup>The interview completion rate was 95%.

**Measures:** Assessment of supplement intake and behaviors among supplement users.

## Control Variables:

*Individual*—Date of birth, age, sex, race, and education.

*Household*—Household income and census region.

**Accessibility and Availability:** Copies of the questionnaire are available from the designated contact person. Detailed data on the population distribution of intake by specific nutrients are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, (703) 487-4650.

**Contact Person:** Alan S. Levy, Ph.D.  
Head, Consumer Research Staff  
Division of Consumer Studies  
Food and Drug Administration  
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Washington, D.C. 20204  
(202) 245-1457

## Selected Key Publications:

Levy AS, Schucker RE. Patterns of Nutrient Intake Among Dietary Supplement Users: Attitudinal and Behavioral Correlates. *J Am Diet Assoc* 87:754–760, 1987.

Stewart ML, McDonald JT, Levy AS, et al. Vitamin/Mineral Supplement Use: A Telephone Survey of Adults in the United States. *J Am Diet Assoc* 85:1585–1590, 1985.

# Survey of Infant Feeding Patterns

**Sponsoring Agency:** Food and Drug Administration

**Conducted:** Planned for 1989

**Purpose:** During the survey, detailed time-specific information about feeding practices during the first 12 months of life will be obtained. Data will be obtained on transitions between breast and bottle feeding, introduction of cow's milk, type and timing of introduction of solid foods, and important sources of information used for guidance about infant feeding practices.

**Target Population:** Women 3–7 months pregnant.

**Design:** Eligible pregnant women will be identified from a large commercial mail panel (150,000 households). A series of mail questionnaires (1 prenatal, 12 postnatal) and at least one telephone survey will be conducted to obtain the necessary data over a period of 18 months.

**Sample Size and Response Rate:**

<i>Sample size</i>	<i>Response rate</i>
Recent mothers approximately 2,000	NA

**Measures:** Current health practices, sources of health information, infant health status, type, timing, and amount of specific foods and fluids fed to infant (includes formula, breast milk, baby foods, adult foods, juices, cow's milk, etc.).

**Control Variables:** Infant weight gain, prior child-rearing experience, participation in the Women, Infants, and Children program (WIC), demographics, child-care arrangements, and health behavior.

**Accessibility and Availability:** Copies of the questionnaires are available from the designated contact person. Data will not be available until sometime in 1990.

**Contact Person:** Alan S. Levy, Ph.D.  
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**Selected Key Publications:** None to date.



### III. Food Composition Measurements

#### Food Label and Package Survey (FLAPS)

**Sponsoring Agency:** Food and Drug Administration (FDA)

**Conducted:** Biennially; last survey conducted was in 1988

**Purpose:** The survey is conducted to monitor labeling practices of U.S. food manufacturers. The survey also includes a surveillance program to identify levels of accuracy of selected nutrient declarations compared with values obtained from nutrient analysis of products.

**Target Population:** All brands of processed foods regulated by FDA and distributed through grocery stores.

**Design:** Biennial probability survey of retail packaged foods using commercial market research data bases (A.C. Nielsen Co.). The survey involves 1,200 individual food brands representing about 70 percent of the packaged food supply in retail dollar terms. Label observations are interpreted on a share-of-the-market sales basis. Biennial nutrient analysis of a representative sample of the 55 percent of packaged foods that bear nutrition labels. Approximately 300 foods are analyzed for an average of eight nutrients.

**Sample Size and Response Rate:** 1,200 food brands—see above.

**Measures:** Prevalence of nutrition labeling in general as well as declaration of selected nutrients and ingredients (for example, cholesterol and sodium content, fats and oils, food additives); also prevalence of nutrition claims and other label statements.

**Control Variables:** 51 major supermarket food groups; brand importance (market leaders versus market followers).

**Accessibility and Availability:** The data base of label observations, excluding brand sales information, is available to the public. Release of brand sales information is restricted by contract to within the U.S. Department of Health and Human Services.

**Contact Person:** Raymond E. Schucker, Ph.D.  
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Food and Drug Administration  
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#### **Selected Key Publications:**

Food and Drug Administration. *Cholesterol Labeling in the Retail Processed Food Supply: 1986*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, 1986.

Food and Drug Administration. *Fortification of the FDA-Regulated Food Supply: 1988*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, 1988.

Food and Drug Administration. *Joint Declaration of Animal and/or Vegetable Fats in Ingredients Lists of Processed Foods*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, 1986.

Food and Drug Administration. *Sodium Content of the Retail Food Supply: 1986*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, July 1987.

Food and Drug Administration. *Status of Nutrition Labeling on Processed Foods: 1986*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, 1986.

Food and Drug Administration. *Trends in Sodium Labeling of Supermarket Foods: 1978–1986*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, 1986.

Food and Drug Administration. *Voluntary Nutrition Information Disclosure: 1978–1984*. Division of Consumer Studies, Center for Food Safety and Applied Nutrition, FDA, Jan. 1986.

# National Nutrient Data Bank

**Sponsoring Agency:** Human Nutrition Information Service (HNIS), U.S. Department of Agriculture

**Conducted:** Continuously

**Purpose:** To compile and make available data on the nutrient composition of foods through development and maintenance of a nutrient data bank, including the nutrient data bases for NFCS, CSFII, and HHANES. Data are made available in published tables of food composition and on public use data tapes.

**Target Population:** Not applicable.

**Design:** Nutrient composition data are obtained from scientific publications, university and government laboratories, food processors and trade groups, and through HNIS-funded contracts for purposes of generating needed food composition data. Most values released are supported by laboratory analyses. Values not available from laboratory analyses are imputed from data for other forms of the food or from data for similar foods.

**Sample Size and Response Rate:** Not applicable.

**Measures:** Nutrient data bases for use with survey results are of two types: nutrient content of the edible parts of a pound of foods in the forms as they enter the kitchen and the nutrient content of 100 grams of food as ingested. Currently, values are derived for food energy and 28 nutrients and other food components.

**Control Variables:** Not applicable.

**Accessibility and Availability:** Reports have been published and are available through the U.S. Government Printing Office; machine-readable food composition data sets are available through the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. (See appendix B for accession numbers and prices.)

**Contact Person:** Ms. Betty Perloff  
Nutritionist  
Nutrition Monitoring Division  
Nutrient Data Research Branch  
Human Nutrition Information Service,  
Room 315  
Hyattsville, Maryland 20782  
(301) 463-5637

## Selected Key Publications:

Matthews RH, Pehrsson PR, Farhat-Sabet M. Sugar Content of Selected Foods: Individual and Total Sugars. HERR No. 48. 1987. 48 pp.

U.S. Department of Agriculture. *Composition of Foods: Fast Foods; Raw, Processed, Prepared*. Principal Investigators: LE Dickey and JL Weihrauch. Agriculture Handbook No. 8-21, 1988.

U.S. Department of Agriculture. *Composition of Foods: Lamb, Veal, and Game Products; Raw, Processed, Prepared*. Principal Investigator: BA Anderson. Agriculture Handbook No. 8-17, 1989.

# Nutrient Composition Laboratory

**Sponsoring Agency:** Agricultural Research Service, U.S. Department of Agriculture

**Conducted:** Continuously

**Purpose:** To design and develop new and/or improved methods for the analyses of nutrients in foods. To transfer new technologies to industrial, academic, and government laboratories, both in the United States and worldwide. Results are made available through scientific journals.

**Target Population:** Not applicable.

**Design:** Research is continuing on the analyses of sugars, carbohydrates, and fiber fractions, trace minerals, lipids, carotenoids, and water-soluble and fat-soluble vitamins. Emphasis is placed on statistically based food sampling plans and analytical reference materials for improving accuracy of food analyses. Provides reference materials to HNIS' prospective contractors to check performance.

**Sample Size and Response Rate:** Not applicable.

**Measures:** Laboratory has developed statistically based sampling studies and tested dependable assay techniques. Staff collaborates with food associations and Federal agencies to improve quality of nutrient composition data. Collaboration includes Human Nutrition Information Service, National Cancer Institute, and National Heart, Lung, and Blood Institute and associations; Egg Nutrition Center, National Livestock and Meat Board, and others. Reference materials research is in collaboration with the National Institute of Science and Technology.

**Control Variables:** Not applicable.

**Accessibility and Availability:** Reports of research on analytical methods have been published in numerous scientific journals.

**Contact Person:** G.R. Beecher, Ph.D.  
Supervisory Research Chemist  
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ARS  
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(301) 344-2356

## Selected Key Publications:

Iyengar GV, Wolf WR. Multipurpose Biological Reference Materials. *Fresenius Z. Analytische Chemie* 332:549–551, 1988.

Khachik F, Beecher GR, Banderslice JT, Furrow G. Chromatographic Artifacts and Peak Distortion in Separation of Carotenoids by HPLC; Sample-solvent Interactions. *Anal Chem* 60:807–815, 1988.

Khachik F, Beecher GR. Separation of Carotenol Fatty Acids Esters by High Performance Liquid Chromatography. *J Chromatogr* 449:119–133, 1988.

Li BW, Andrews KW. Simplified Method for the Determination of Total Dietary Fiber in Foods. *J Assoc Off Anal Chem* 71:1063–1064, 1988.

Miller-Ihli NJ. Trace Element Determinations in Biologicals Using Atomic Absorption Spectrometry. *Journal of Research of the National Bureau of Standards* 93:350–354, 1988.



## IV. Dietary Knowledge and Attitude Assessment

### Health and Diet Survey

**Sponsoring Agency:** Food and Drug Administration (Cosponsored by National Institutes of Health, National Heart, Lung, and Blood Institute)

**Conducted:** 1982, 1984, 1986, 1988

**Purpose:** The survey is conducted to assess public knowledge, attitudes, and practices about food and nutrition, particularly as they relate to such health problems as hypertension, hypercholesterolemia, coronary heart disease, and cancer. The survey also assesses the public's use of information on food labels including the use of ingredient lists to avoid or limit food substances.

**Target Population:** Civilian noninstitutionalized adults ages 18 and over.

**Design:** Telephone interviews with a national probability Waksberg sample selected by a random digit-dialing method. One adult from each household contacted was randomly selected to participate in the survey.

#### Sample Size and Response Rate:

Sample size  
4,000

Response rate  
70–75%

**Measures:** Awareness (perceptions), attitudes (concerns), knowledge, and behaviors regarding food and nutrition; height, weight, and household health status and history as reported by household members.

#### Control Variables:

*Individual*—Language of interview, age, sex, race, ethnicity, and education.

*Household*—Household income, number of adults in household, and census region.

**Accessibility and Availability:** Copies of the questionnaire are available from the designated contact person. Results are published in the literature approximately every 2 years.

**Contact Person:** Alan S. Levy, Ph.D.  
Head, Consumer Research Staff  
Division of Consumer Studies  
Food and Drug Administration  
200 C Street, S.W. (HFF-240)  
Washington, D.C. 20204  
(202) 245-1457

#### Selected Key Publications:

Heimbach JT. Cardiovascular Disease and Diet: The Public View. *Public Health Rep* 100:5–12, 1985.

Heimbach JT. Risk Avoidance in Consumer Approaches to Diet and Health. *Clin Nutr* 6:159–162, 1987.

Heimbach JT. The Growing Impact of Sodium Labeling of Foods. *Food Tech* 40:102–104, 107, 1986.

Heimbach JT, Orwin RG. Public Perceptions of Sodium Labeling. *J Am Diet Assoc* 84:1217–1219, 1984.

Schucker BH, Bailey K, Heimbach JT, et al. Change in Public Perspective on Cholesterol and Heart Disease: Results From Two National Surveys. *JAMA* 258:3527–3531, 1987.

# Survey of Weight-Loss Practices

**Sponsoring Agency:** Food and Drug Administration  
(Cosponsor National Heart, Lung, and Blood Institute)

**Conducted:** Planned for 1989

**Purpose:** The survey will provide detailed information about types and combinations of weight-loss practices being used by individuals trying to lose weight. The data will be used to estimate the prevalence of specific practices, both appropriate and inappropriate, in the general population and to evaluate progress toward achieving national health objectives requiring weight loss.

**Target Population:** Individuals currently trying to lose weight, 18 years or over.

**Design:** A probability sample of telephone households will be screened for the presence of a current dieter. Current dieters will be interviewed on the telephone about current weight-loss practices.

## Sample Size and Response Rate:

	<i>Sample size</i>	<i>Response rate</i>
Current dieters	1,200	NA
Nondietering controls	400	NA

**Measures:** Current health practices, sources of health information, inventory of current weight-loss practices, height and weight, dieting, and weight history.

**Control Variables:** Body mass index, sex, age, race, income, diet history, other health behavior, and self-perception of overweight.

**Accessibility and Availability:** Copies of the questionnaire are available from the designated contact person. Data will not be available until some time in 1989.

**Contact Person:** Alan S. Levy, Ph.D.  
Head, Consumer Research Staff  
Division of Consumer Studies  
Food and Drug Administration  
200 C Street, S.W. (HFF-240)  
Washington, D.C. 20204  
(202) 245-1457

## Selected Key Publications:

Stephenson MG, Levy AS, Saas NL, McGarvey WE. 1985 NHIS Findings: Nutrition Knowledge and Baseline Data for Weight-Loss Objectives. *Public Health Rep* 102(1):61-67, 1987.

# Diet-Health Knowledge Survey (DHKS); Follow-on Survey to the Continuing Survey of Food Intakes by Individuals (CSFII)

**Sponsoring Agency:** Human Nutrition Information Service, U.S. Department of Agriculture (Cosponsors Food Safety and Inspection Service and the Food and Drug Administration)

**Conducted:** Annually beginning in 1989 as a follow-on to the CSFII

**Purpose:** To understand those factors that influence the individual's food-choice decisions, including real or perceived economic constraints; such psychosocial factors as tastes, convenience, and cultural orientation; such health-related concerns as allergies or intolerances and perceived relationships between diet and health; and the knowledge and abilities necessary to translate personal goals into dietary behaviors, such as food sources of nutrients and nonnutritive components, understanding of food labeling, access to sources of information, and proper food handling and preparation procedures.

**Target Population:** "Food managers" in households participating in the CSFII.

**Design:** See CSFII 1989.

**Sample Size and Response Rate:** See CSFII 1989.

**Measures:** Self-perceptions of relative intake levels, reported changes in diet, and reported household health status.

**Control Variables:** See CSFII 1989.

**Accessibility and Availability:** See CSFII 1989.

**Contact Person:** Robert Rizek, Ph.D.  
Director, Nutrition Monitoring  
Division  
Human Nutrition Information Service  
U.S. Department of Agriculture  
6505 Belcrest Road  
Hyattsville, Maryland 20782  
(301) 436-8457

**Selected Key Publications:** None to date.



# Cholesterol Awareness Survey—Public Survey

**Sponsoring Agency:** National Heart, Lung, and Blood Institute, National Institutes of Health (in conjunction with the Food and Drug Administration)

**Conducted:** 1983 and 1986; repeat survey planned for 1989

**Purpose:** The Public Cholesterol Awareness Survey is conducted to assess the public's attitudes and knowledge about heart disease risk from high blood cholesterol levels and the public's efforts to lower blood cholesterol levels. Trends in survey data are used to help plan for and evaluate the National Cholesterol Education Program.

**Target Population:** Civilian noninstitutionalized population ages 18 and over.

**Design:** Telephone interviews with a national probability sample of households in the conterminous United States, using a random-digit dialing method. One adult from each household contacted was randomly selected to participate in the survey.

**Sample Size and Response Rate:**

	<i>Sample size</i>	<i>Response rate</i>
1983 .....	4,007	56%
1986 .....	4,004	67%

**Measures:** Public knowledge and attitudes on blood cholesterol and nutritional facts that are commonly part of dietary instructions to lower blood cholesterol. Personal behaviors about what respondents are doing about their own levels of blood cholesterol.

**Control Variables:**

*Individual*—Age, race, sex, ethnicity, education

*Household*—Household income, number of adults in household, and census region.

**Accessibility and Availability:** Contact Beth Schucker (see below) for information on data tapes.

**Contact Person:** Ms. Beth Schucker  
Health Scientist Administrator  
Lipid Metabolism and Atherogenesis  
Branch  
Division of Heart and Vascular  
Disease  
National Heart, Lung, and Blood  
Institute  
National Institutes of Health  
Bethesda, Maryland 20892  
(301) 496-1681

**Selected Key Publications:**

Schucker B, Bailey K, Heimbach JT, et al. Change in Public Perspective on Cholesterol and Heart Disease: Results From Two National Surveys. *JAMA* 258(240):3527–3531, Dec. 25, 1987.

# Cholesterol Awareness Survey—Physicians' Survey

**Sponsoring Agency:** National Heart, Lung, and Blood Institute, National Institutes of Health

**Conducted:** 1983 and 1986; repeat survey planned for 1989

**Purpose:** The Physicians' Cholesterol Awareness Survey is conducted to assess physician knowledge and attitudes regarding the modification of elevated cardiovascular risk factors, especially the serum cholesterol level, and to assess physician management of hypercholesterolemia. Trends in survey data are used to help plan for and evaluate the National Cholesterol Education Program.

**Target Population:** Physicians practicing in the conterminous United States with specialties in general and family practice, internal medicine, and cardiology.

**Design:** Telephone interviews with a random sample of practicing physicians (with specialties in general practice and family practice and internal medicine and cardiology) listed in the master files of the American Medical Association and the American Osteopathic Association. Physicians were further subdivided according to their age (< 40 and > 40 years).

## Sample Size and Response Rate:

	<i>Sample size</i>	<i>Response rate</i>
1983 . . . . .	1,610	56%
1986 . . . . .	1,277	62%

**Measures:** Physician knowledge and attitudes toward various risk factors for coronary heart disease, serum cholesterol and diet, and patient motivation for diet change. Physician practices related to dietary and drug therapy for elevated serum cholesterol levels.

**Control Variables:** Physician age, specialty, and type of practice.

**Accessibility and Availability:** Contact Beth Schucker (see below) for information on data tapes.

**Contact Person:** Ms. Beth Schucker  
Health Scientist Administrator  
Lipid Metabolism and Atherogenesis  
Branch  
Division of Heart and Vascular  
Disease  
National Heart, Lung, and Blood  
Institute  
National Institutes of Health  
Bethesda, MD 20892  
(301) 496-1681

## Selected Key Publications:

Schucker B, Wittes JA, Cutler JA, et al. Change in Physician Perspective on Cholesterol and Heart Disease: Results From Two National Surveys. *JAMA* 258(24):3521–3526, Dec. 25, 1987.

# Nationwide Survey of Nurses' and Dietitians' Knowledge, Attitudes, and Behavior Regarding Cardiovascular Disease Risk Factors

**Sponsoring Agency:** National Heart, Lung, and Blood Institute, National Institutes of Health

**Conducted:** Still not cleared by the Office of Management and Budget; expected to be conducted in 1989

**Purpose:** This survey will be conducted to assess the knowledge, attitudes, and reported practices of registered nurses and registered dietitians related to high blood pressure, high blood cholesterol, and cigarette smoking.

**Target Population:** Registered nurses [including occupational health nurses (OHN's)] and registered dietitians currently active in their profession.

**Design:** Mail survey. Systematic random sampling of dietitians, stratified cluster sampling for registered nurses, and simple random sampling for OHN's.

## Sample Size and Response Rate:

	<i>Expected sample size</i>	<i>Response rate</i>
Registered nurses . . . . .	7,200	NA
Occupational health nurses . . . . .	1,621	NA
Registered dietitians . . . . .	1,782	NA

**Measures:** Knowledge, attitudes, and reported practices related to high blood cholesterol and high blood pressure; personal health practices related to changes in diet to lower blood cholesterol.

**Control Variables:** Age, sex, race, education, professional position, and practice setting.

**Accessibility and Availability:** Data not yet collected. A data tape will eventually be available.

**Contact Person:** Carol Haines, M.P.H.  
Program Data Coordinator  
Health Education Branch  
Office of Prevention, Education, and Control  
National Heart, Lung, and Blood Institute  
National Institutes of Health  
Bethesda, Maryland 20892  
(301) 496-1051

**Selected Key Publications:** None to date.



# Basic Office of Cancer Communications National Knowledge, Attitude, and Behavior Survey

**Sponsoring Agency:** National Cancer Institute (NCI), National Institutes of Health

**Conducted:** 1988: ongoing through 1991

**Purpose:** This survey was designed to measure current and changing trends regarding cancer knowledge, attitudes, and behaviors.

**Target Population:** Civilian noninstitutionalized population aged 18 and over in the United States.

**Design:** National probability sample on a continuous basis.

**Sample Size and Response Rate:** For first quarter,  $n = 500$ . Annually will be 2,600. Interviewing is on a continuous basis: 5 days/week, approximately 220 interviews/month, 2,600/year for 3 years.

**Measures:** Self-reports on a set of basic KAB (knowledge, attitude, and behavior) health and cancer items.

**Control Variables:**

*Topic areas*—Self-perceptions of health, awareness of health risks, awareness of behaviors that increase or decrease cancer risk, sources of cancer information, and demographics.

*Nutrition-related items*—Awareness and knowledge of fiber; attitudes and behavior toward eating red meat, vegetables, and poultry; and use of various fats in the preparation of foods.

**Accessibility and Availability:** Hard copy of First Quarter Report from NCI, Office of Cancer Communications—Free. Report on Knowledge, Attitudes and Behavior, Cancer Survey, Wave I—1988. See contact person.

**Contact Person:** For ordering report and questions  
Ms. Shelagh A. Smith  
Evaluator, Office of Cancer Communications  
National Cancer Institute  
Building 31, Room 4B-43  
9000 Rockville Pike  
Bethesda, Maryland 20892  
(301) 496-6792

**Selected Key Publications:** None to date.

# Cancer Prevention Awareness Survey: Wave I—1984

**Sponsoring Agency:** National Cancer Institute (NCI),  
National Institutes of Health

**Conducted:** 1983

**Purpose:** This survey was designed to measure baseline knowledge, attitudes, and behavior regarding lifestyle and cancer prevention.

**Target Population:** Civilian noninstitutionalized population aged 18 and over in the United States.

**Design:** National probability sample; random-digit dialing.

**Sample Size and Response Rate:**

<i>Eligible contacts</i>	<i>Respondents</i>	<i>Completions</i>	<i>Response rate</i>
2,479	1,876	1,876	75%

**Measures:** Self-reports on a set of basic KAB (knowledge, attitude, behavior) health and cancer items.

**Control Variables:**

*Topic areas*—Self-perceptions of health, awareness of health risks, awareness of behaviors that decrease cancer risk, sources of cancer information, and demographics.

*Nutrition-related items*—Awareness and knowledge of fiber; attitudes and behavior toward eating red meat, vegetables, poultry; and use of various fats in preparation of foods.

**Accessibility and Availability:** Hard copy of Final Report from NCI, Office of Cancer Communications—Free. Management Summary: Cancer Prevention Awareness Survey, Wave I—1984 and Technical Report: Cancer Prevention Awareness Survey—1984. See contact person.

**Contact Person:** For ordering report and questions  
Ms. Shelagh A. Smith  
Evaluator, Office of Cancer  
Communications  
National Cancer Institute  
Building 31, Room 4B-43  
9000 Rockville Pike  
Bethesda, Maryland 20892  
(301) 496-6792

**Selected Key Publications:**

Management Summary: Cancer Prevention Awareness Survey, Wave I, 1984. 12 pp.

Technical Report: Cancer Prevention Awareness Survey, 1984. 106 pp.

## Cancer Prevention Awareness Survey: Wave II—1986

**Sponsoring Agency:** National Cancer Institute (NCI),  
National Institutes of Health

**Conducted:** 1985

**Purpose:** This survey was designed to measure progress on knowledge, attitudes, and behavior regarding lifestyle and cancer prevention.

**Target Population:** Civilian noninstitutionalized population aged 18 and over in the United States, as well as oversample of 263 black Americans.

**Design:** National probability sample; random-digit dialing. Oversample of black Americans.

**Sample Size and Response Rate:** 1,898 main respondents, 103 supplemental black persons = total of 2,001. 2,601 eligible contacts for main sample = response rate of 73%. 154 eligible contacts make for black supplemental sample = response rate of 67%.

**Measures:** Self-reports on a set of basic KAB (knowledge, attitude, behavior) health and cancer items.

**Control Variables:**

*Topic areas*—Self-perceptions of health, awareness of health risks, awareness of behaviors that increase or decrease cancer risk, sources of cancer information, and demographics.

*Nutrition-related items*—Awareness and knowledge of fiber; attitudes and behavior toward eating red meat, vegetables, poultry; and use of various fats in preparation of foods.

**Accessibility and Availability:** Hard copy of Final Report from NCI, Office of Cancer Communications—Free. See contact person.

**Contact Person:** For ordering report and questions  
Ms. Shelagh A. Smith  
Evaluator, Office of Cancer  
Communications  
National Cancer Institute  
Building 31, Room 4B-43  
9000 Rockville Pike  
Bethesda, Maryland 20892  
(301) 496-6792

**Selected Key Publications:**

Management Summary Cancer Prevention Awareness Survey, Wave II, 1986. 15 pp.

Technical Report: Cancer Prevention Awareness Survey, 1984. 154 pp.



# Prospective Survey of Infant Feeding Practices Among Primipara

**Sponsoring Agency:** Prevention Research Program,  
National Institute of Child Health and Human  
Development

**Conducted:** 1984–86

**Purpose:** To measure the incidence and duration of  
breast feeding among black and white urban primipara  
women, and to identify the correlates of incidence and  
duration of breast feeding in the sample population.

**Target Population:** Black and white urban primipara  
living in Washington, D.C., who gave birth to normal  
weight (>2500) singleton births.

**Design:** Women who delivered on specified dates in any  
of three hospitals in the Washington, D.C., area were  
eligible for the survey. This was a prospective study.  
Women were interviewed at 2–3 days post partum, and 1,  
3, 7, and 12 months post partum. Personal interviews  
were administered up until the time the woman reported  
that she stopped breast feeding; thereafter interviews were  
administered by phone.

## Sample Size and Response Rate:

	<i>Sample size</i>	<i>Response rate</i>
Eligible women . . . . .	1,409	
Women surveyed . . . . .	1,179	84%

**Measures:** Incidence and duration of breast feeding;  
infant solid-food intake (food frequency); pattern of bottle  
or breast feeding; maternal report of infant weight and  
length.

**Control Variables:** Infant morbidity, infant behavior,  
maternal employment; maternal sociodemographic  
information, maternal attitudes towards breast feeding;  
social support to breast feed; and labor and delivery  
experience.

**Accessibility and Availability:** For information about data  
tapes, contact: George Rhoades, M.D.  
Prevention Research Program,  
EPN640  
National Institute of Child Health and  
Human Development  
Bethesda, Maryland 20892  
(301) 496-1711

**Contact Person:** Natalie K. Kurinij, Ph.D.  
Epidemiologist, Extramural and  
Collaborative Program  
Collaborative Clinical Research  
Branch  
National Eye Institute  
National Institutes of Health,  
Bldg. 31, Room 6A-49  
Bethesda, Maryland 20892  
(301) 496-5983

## Selected Key Publications:

Kurinij N, Shiono PH, Rhoads GG. Breast Feeding  
Incidence and Duration in Black and White Women.  
*Pediatr* 15:3–7, 1988.

# V. Food Supply Determinations

## U.S. Food and Nutrition Supply Series

**Sponsoring Agency:** Economic Research Service and Human Nutrition Information Service, U.S. Department of Agriculture

**Conducted:** Annually

**Purpose:** The management of Federal food production, marketing, food assistance, nutrition education, and public health programs requires an understanding of the dietary and nutritional status of the U.S. food supply. The U.S. Department of Agriculture maintains statistics on the U.S. food supply and the nutrient content of the food supply.

**Target Population:** U.S. population.

**Design:** USDA's Economic Research Service provides annual estimates on amounts of about 350 foods that disappear into the food distribution system at either the wholesale or retail level. Quantities are derived by deducting data on exports, year-end inventories, and nonfood use from data on production, imports, and beginning inventories. Nutrient levels in the food supply are derived by multiplying the per capita quantities of each food by the nutrient composition of the edible portion per pound of food. Results from all foods are totaled for each nutrient and converted to a per day basis.

**Sample Size and Response Rate:** Not applicable.

**Measures:** Quantities of food available for consumption on a per capita per year basis and quantities of food energy and 25 nutrients and food components provided by these foods on a per capita per day basis.

**Control Variables:** The point in the marketing system at which a commodity is initially measured is constant over time. All commodities are converted to a retail-weight equivalent to eliminate disparities in weight bases among foods.

**Accessibility and Availability:** Data on the nutrient content of the U.S. food supply are published annually in the following five publications:

*Agricultural Statistics* (U.S. Department of Agriculture); *Food Consumption, Prices and Expenditures* (U.S. Department of Agriculture, Economic Research Service); *National Food Review* (U.S. Department of Agriculture, Economic Research Service);

*Nutrient Content of the U.S. Food Supply* (U.S. Department of Agriculture, Human Nutrition Information Service); and *Statistical Abstracts of the United States* (U.S. Bureau of the Census).

**Contact Person:** Nancy Raper, Ph.D. (nutrient content of food supply)  
Home Economist  
Human Nutrition Information Service  
U.S. Department of Agriculture  
Hyattsville, Maryland 20782  
(301) 436-5809

Ms. Judith Putnam (food supply and utilization)  
Agricultural Economist  
Economic Research Service  
U.S. Department of Agriculture  
1301 New York Ave., N.W.,  
Room 1137  
Washington, D.C. 20005-4788  
(202) 786-1870

### Selected Key Publications:

Marston RM, Raper NR. Nutrient Content of the U.S. Food Supply. *Natl Food Rev* 37:18-23. U.S. Department of Agriculture, 1987.

Raper NR, Marston RM. Levels and Sources of Fat in the U.S. Food Supply. In: *Dietary Fat and Cancer*, eds. C Ip, DF Birt, AE Rogers, and C Mettlin. New York: Alan R. Liss, Inc., 1986.

Welsh SO, Marston RM. Review of Trends in Food Use in the United States, 1909 to 1980. *J Am Diet Assoc* 81(2):120, 1982.

U.S. Department of Agriculture. *Nutrient Content of the U.S. Food Supply and Tables of Nutrients Provided by the U.S. Food Supply*. Prepared by N Raper and R Marston. U.S. Department of Agriculture, HNIS (Adm.) 299-21, 1988. 72 pp.

U.S. Department of Agriculture. Nutrients in Food Available for Consumption per Capita per Day, 1909-85. *Food Consumption, Prices and Expenditures* 1966-87 Statistical Bulletin, No. 773, Economic Research Service, U.S. Department of Agriculture, 1989. p. 47.

## A.C. Nielsen Scantrack

**Sponsoring Agency:** Economic Research Service, Human Nutrition Information Service, Agriculture Marketing Service, Food and Nutrition Service, Food Safety and Inspection Service, and Food and Drug Administration

**Conducted:** Monthly since 1985

**Purpose:** Measure grocery store sales and physical volume of all scannable packaged food products.

**Target Population:** U.S. grocery store universe.

**Design:** Proprietary data purchased from A. C. Nielsen Company. Gives monthly and annual data on total U.S. grocery store sales and volume for four-digit food product classes. Product class data are on diskette and hard copy. Monthly data at the individual brand and package size level of detail are available on tape. Individual brand data cannot be used outside sponsoring agencies because they are proprietary.

**Sample Size and Response Rate:** Up to 1988, sample size included 150 supermarkets. In 1988 sample size increased to about 2,000 supermarkets.

**Measures:** Sales and physical volume of specific package grocery items sold through supermarkets.

**Control Variables:** For each item the sales, physical volume, selling price, and percent of stores selling the product.

**Accessibility and Availability:** Currently accessible only through the contact agency.

**Contact Person:** Michael Harris, M.S.  
Agricultural Economist  
Economic Research Service,  
Room 1137  
U.S. Department of Agriculture  
1301 New York Avenue, N.W.  
Washington, D.C. 20005-4788  
(202) 786-1870

**Selected Key Publications:** Not applicable.



# Food Needs Assessment Project

**Sponsoring Agency:** U.S. Agency for International Development (USAID)

**Conducted:** 1987–90

**Purpose:** To provide technical assistance in food needs assessment to USAID field missions and host governments that receive food aid. Topics addressed include:

- Linking national with indepth local assessments of food needs.
- Development of techniques for estimating food deficits not caused by climatic factors or production shortfalls.
- Treatment of closing stock balances.
- Appropriate approaches in analyses of nutritional need and nonemergency situations.
- Inclusion of more diverse diets in non-African countries.
- Revision of methodology for assessing food needs in a variety of countries.

**Target Population:** Technical officers involved in the assessment of food needs at USAID field missions as well as international food aid organizations.

**Design and Measures:** Determination of food deficit or surplus made by collection and analyses of food-sector data. Major variables analyzed include population, historical per capita consumption, opening and closing stock data, commercial imports and exports, and foreign exchange and financial data. Information also collected by commodity, composition of diet, aggregate gross production data, feed and waste, and milling extraction rates.

**Sample Size and Response Rate:** Not applicable.

**Control Variables:** Not applicable.

**Accessibility and Availability:** A major contribution of this project will be a food needs data base. Data from each country receiving food aid will be included and periodically updated. The team will analyze mission and other food needs documentation by country and will disseminate it, in final form, to the field missions and relevant USAID offices. Periodically, the team will review the data bases of Economic Research Service, USDA; Center for Development, Information, and Evaluation, Bureau for Program and Policy Coordination; and Food and Agriculture Organization in order to integrate useful information into their own data base to maintain historical data series by country. All information will be stored in IBM and WANG diskettes and provided to Food for Peace and Voluntary Assistance for transmission to the field. Periodically the team will conduct a review and analysis of the Economic Research Service food needs and assessment methodology to determine differences with USAID methodology that may impact it, especially in terms of decision-making issues in food aid programming.

**Contact Person:** Mr. Thomas Ross  
Food for Peace and Voluntary  
Assistance  
Program and Policy Management  
215 State Annex 18  
Washington, D.C. 20523  
(202) 875-4626

## Selected Key Publications:

*Food Needs Assessment Manual and Software Package.* Prepared by Food Needs Assessment Project Staff, located at Agency for International Development and Bureau of Food for Peace and Voluntary Assistance (1989).

# VI. Sociodemographic Measurements and Economic Indicators

## Consumer Expenditure Survey

**Sponsoring Agency:** U.S. Bureau of Labor Statistics

**Conducted:** Continuously

**Purpose:** The objective of this survey is threefold: (1) To provide information on consumer expenditures to support the Consumer Price Index revisions of the market basket. (2) To provide a flexible set of data, serving a wide variety of social and economic analyses. (3) To provide a continuous body of detailed expenditure and income data for research purposes.

**Target Population:** Civilian noninstitutionalized population and a portion of the institutionalized population in the United States.

**Design:** Ongoing household survey consisting of two parts, each with a different data collection technique and sample. In the Interview Survey, each consumer unit in the sample is interviewed every 3 months over five calendar quarters. The Diary Survey is completed at home by the respondent family for two consecutive 1-week periods.

**Sample Size and Response Rate:**

	<i>Sample size</i>	<i>Response rate</i>
1987:		
Interview survey . . . . .	6,760	85%
Diary survey. . . . .	6,050	84%

**Measures:** No direct nutrition-related indicators collected. Average annual food expenditures collected at a detailed item level in the Diary Survey. Food stamp participation collected in the Interview Survey.

**Control Variables:** Published demographic variables include quintiles of income before taxes, income before taxes, age, size of consumer unit, region, composition of consumer unit, number of earners in consumer unit, housing tenure, and race. Other demographic variables are collected.

**Accessibility and Availability:** Expenditure means by demographic groups published quarterly and annually. To obtain, contact Eva Jacobs (see address below). Public use data tapes available annually. To order, contact Division of Planning and Financial Management, U.S. Bureau of Labor Statistics, Room 2115, 441 G Street, N.W., Washington, D.C. 20212.

**Contact Person:** Eva Jacobs  
Chief, Division of Consumer  
Expenditures Surveys  
U.S. Bureau of Labor Statistics  
600 E Street N.W., Room 4216  
Washington, D.C. 20212  
(202) 272-5060

**Selected Key Publications:**

Consumer Expenditure Survey, 1986, News Release  
USDL: 88-175 (1988).

# Survey of Income and Program Participation (SIPP)

**Sponsoring Agency:** U.S. Bureau of the Census

**Conducted:** Continuous data collection

**Purpose:** To collect source and amount of income, labor force information, program participation and eligibility data, and general demographic characteristics to measure the effectiveness of existing Federal, State, and local programs; to estimate future costs and coverage for government programs such as food stamps; and to provide improved statistics on the distribution of income in the Nation.

**Target Population:** Civilian noninstitutionalized population of the United States.

**Design:** Longitudinal household interview survey. Multistage, stratified, probability clustered sample of households throughout the United States.

**Sample Size and Response Rate:** A continuing series of panels with approximately 11,600 interviewed households in each panel. This may rise to 20,000 interviewed households beginning with the 1990 Panel. Panel duration is 2½ years. Sample loss is around 7 percent at the first interview and increases to about 21 percent by the last interview.

**Measures:** The content of the SIPP is developed around a “core” of labor force, program participation, and income questions designed to measure the economic situation of persons in the United States. These questions are repeated at each interview. The survey also has “topical modules” containing questions on a variety of topics not covered in the core section. Previous health-related modules have included health status and utilization of health care services, long-term care, and disability status of children. Topical modules are not repeated at every interview.

**Control Variables:** Age, race, sex, marital status, education, veteran status, ethnic origin, and housing tenure status.

**Accessibility and Availability:** Quarterly cross-sectional reports were released for the core data collection in 1983 and 1984. The series of quarterly reports was replaced by annual cross-sectional, topical module, and longitudinal reports. Public use microdata files containing the core data on income reciprocity and program participation are currently available for all waves (1–9) of the 1984 Panel and Waves 1 and 2 of the 1985 Panel. Topical module files containing core and topical module data also have

been released for Waves 3–9 of the 1984 Panel and Waves 3–5 of the 1985 Panel. (No topical module data were collected in the first two waves of these panels.) The release of microdata files for all waves of the 1985 and 1986 Panels and the release of data from the 1987 Panel will begin by the fall of 1989.

Public use microdata files are available from the Data User Services Division, U.S. Bureau of the Census, Washington, D.C. 20233, (301) 763-4100.

Publications are released under the Current Population Reports, Household Economic Studies, Series P-70, and are available for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

**Contact Person:** Mr. Chester Bowie  
Chief, Income Surveys Branch  
Demographic Surveys Division  
Bureau of the Census, Room 3339-3  
Washington, D.C. 20233  
(301) 763-2764

## Selected Key Publications:

Frankel DT. Summary of the Content of the 1984 Panel of the Survey of Income and Program Participation. *SIPP Working Paper Series* No. 8504. U.S. Bureau of the Census, Washington, D.C., 1985.

Herriot RA, Kasprzyk D, eds. Some Aspects of SIPP. *SIPP Working Paper Series* No. 8601. U.S. Bureau of the Census, Washington, D.C., 1986.

Kasprzyk D. The Survey of Income and Program Participation: An Overview and Discussion of Research Issues. *SIPP Working Paper Series* No. 8830. U.S. Bureau of the Census, Washington, D.C., 1988.

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# Appendix A

## National Center for Health Statistics Data Set Listing

The prices quoted in this catalog are for tapes at 1600 bytes per inch (bpi). Use the price conversion chart to calculate prices for tapes at 6250 bpi.

### Conversion table for data sets at 6250 bpi

1600 bpi	6250 bpi
\$300.00	\$200.00
400.00	300.00
500.00	300.00
600.00	300.00
700.00	400.00
800.00	400.00
900.00	500.00
1,000.00	500.00
1,100.00	600.00
1,200.00	600.00
1,300.00	700.00
1,400.00	700.00
1,500.00	800.00
1,600.00	800.00
1,700.00	900.00
1,800.00	900.00
1,900.00	1,000.00

### National Health Interview Survey, 1969-86

Data year	Accession no.	Price
1969	PB-235543	\$700.00
1970	PB-237322	700.00
1971	PB-238524	700.00
1972	PB-285460	800.00
1973	PB-285511	700.00
1974	PB-285517	700.00
1975	PB-281126	700.00
1976	PB-300423	700.00
1977	PB80-203953	700.00
1978	PB81-179285	700.00
1979	PB82-157173	700.00
1980	PB83-248922	700.00
1981	PB84-111657	700.00
1982	PB85-236172	600.00
1983	PB86-138856	700.00
1984	PB87-121547	700.00
1985	PB87-148144	700.00
1986	PB88-146139	700.00

### Hispanic Health and Nutrition Examination Survey, 1982-84

		Accession no.	Price
HHANES —	Dental Health, Ages 6 months-74 years, Version 2 (Tape No. 6505)	PB88-103643	\$200.00
HHANES —	Body Measurements, Ages 6 months-74 years, Version 1 (Tape No. 6501)	PB87-152757	200.00
HHANES —	Physician's Examination (Tape No. 6509)	PB87-158416	200.00
HHANES —	Dietary Practices, Food Frequency, and Total Nutrient Intake (Tape No. 6525)	PB87-152716	200.00
HHANES —	Adolescent and Adult History Questionnaire, Ages 6 months-74 years (Tape No. 6521)	PB87-182440	200.00
HHANES —	Alcohol Consumption Data, Ages 12-74 years, Version 1 (Tape No. 6533)	PB87-231304	200.00
HHANES —	Child History Questionnaire, Ages 6 months-11 years, Version 2 (Tape No. 6522)	PB87-182424	200.00
HHANES —	Drug Abuse, Ages 12-74 years, Version 1 (Tape No. 6543)	PB87-231288	200.00
HHANES —	Measures of Depression, Ages 20-74 years, Version 2 (Tape No. 6523)	PB87-100391	200.00

### Second National Health and Nutrition Examination Survey, 1976-80

		Accession no.	Price
NHANES II —	24-Hour Recall-Specific Food Item (Tape No. 5704)	PB82-142639	\$500.00
NHANES II —	Total Nutrient Intake, Food Frequency, and Other Related Dietary Data (Tape No. 5701)	PB82-168261	200.00
NHANES II —	Model Gram and Nutrient Composition (Tape No. 5702 and 5703)	PB82-142613	300.00
NHANES II —	Anthropometric Data (Tape No. 5301)	PB82-191917	200.00
NHANES II —	Hematology and Biochemistry (Tape No. 5411)	PB82-253162	200.00
NHANES II —	Medical History, Ages 12-74 Years (Tape No. 5020)	PB83-154815	200.00
NHANES II —	Medical History, Ages 6 Months to 11 Years (Tape No. 5010)	PB83-215616	200.00
NHANES II —	Health History Supplement, Ages, 12-74 Years (Tape No. 5305)	PB83-256537	200.00
NHANES II —	Audiometric Air Conduction Test, Ages 4-19 Years (Tape No. 5306)	PB85-153609	200.00
NHANES II —	Allergy Skin Test (Tape No. 5309)	PB86-121613	200.00
NHANES II —	Physician's Examination (Tape No. 5302)	PB86-242930	200.00

## First National Health and Nutrition Examination Survey, 1971-75

	Accession no.	Price
NHANES I—Medical History, Ages 1-11 years (Tape No. 4067)	PB-296031	\$200.00
NHANES I—Medical History, Ages 12-74 years (Tape No. 4081)	PB-296073	200.00
NHANES I—Detailed Medical History, Health Care Needs and Supplements on Cardiovascular Respiratory (Tape No. 4091)	PB-296029	200.00
NHANES I—Anthropometry, Goniometry, Bone Density, Cortical Thickness and Skeletal Age, Ages 1-74 years (Tape No. 4111)	PB-295908	200.00
NHANES I—Arthritis (Tape No. 4121)	PB-296018	200.00
NHANES I—Ophthalmology (Tape No. 4161)	PB-296033	200.00
NHANES I—Near and Distant Vision (Tape No. 4163)	PB-295910	200.00
NHANES I—General Well-Being (Tape No. 4171)	PB-296020	200.00
NHANES I—Medical Examination, Ages 1-74 Years, (Tape No. 4233)	PB-296035	200.00
NHANES I—Dental (Tape No. 4235)	PB-296023	200.00
NHANES I—Audiometric Test (Tape No. 4241)	PB-297337	200.00
NHANES I—A. Model Gram and B. Nutrient Composition (Tape Nos. 4702 and 4703)	PB-296027	300.00
NHANES I—Dietary Frequency and Adequacy Ages 1-74 years (Tape No. 4701)	PB-295906	200.00
NHANES I—24-Hour Food Consumption Intake, Ages 1-74 years (Tape No. 4704)	PB-297339	500.00
NHANES I—Biochemistry, Serology, Hematology, Peripheral Blood Slide and Urinary Findings, Ages 1-74 years (Tape No. 4800)	PB-297344	200.00
NHANES I—Computer Measurement and Interpretations of Electrocardiograms (Tape No. 4140)	PB80-168222	200.00
NHANES I—Spirometry (Tape No. 4250)	PB80-145931	200.00
NHANES I—Dermatology (Tape No. 4151)	PB80-130255	200.00
NHANES I—Pulmonary Diffusion, TB, Chest X Ray Planimetry, Heart Size, and Lung and Heart Pathology, Ages 25-74 years (Tape No. 4251)	PB87-126009	200.00
NHANES I—Water Supplement and Water Chemical Assessment, Ages 25-74 years (Tape No. 4277)	Available only from NCHS	160.00

## NHANES I Epidemiologic Followup Study, 1982-84

	Accession no.	Price
Vital and Tracing Status	PB88-102264	\$200.00
Interview	PB88-121298	200.00
Health Care Facility Record	PB88-102280	200.00
Mortality	PB88-102306	200.00

### Vital Statistics, Natality, Detail, 1968-85

Data year	Accession no.	Price
1968	PB-238700	\$ 700.00
1969	PB-238698	1,300.00
1970	PB80-107006	1,200.00
1971	PB80-107741	1,200.00
1972	PB80-107766	1,200.00
1973	PB80-107642	1,200.00
1974	PB80-107683	1,300.00
1975	PB80-170808	1,500.00
1976	PB80-117153	1,600.00
1977	PB-301360	1,800.00
1978	PB80-188618	1,600.00
1979	PB82-132325	1,400.00
1980	PB83-154831	1,400.00
1981	PB84-136159	1,400.00
1982	PB85-153633	1,400.00
1983	PB86-106275	1,400.00
1984	PB86-233129	1,900.00
1985	PB87-230694	1,900.00

### Vital Statistics, Natality, Local Area Summary, 1968-85

Data year	Accession no.	Price
1968	PB-238701	\$200.00
1969	PB80-186299	200.00
1970	PB80-107550	300.00
1971	PB80-107709	300.00
1972	PB80-107576	300.00
1973	PB80-107519	300.00
1974	PB80-107535	300.00
1975	PB80-107725	400.00
1976	PB80-107667	400.00
1977	PB80-107782	400.00
1978	PB80-186372	300.00
1979	PB82-132283	200.00
1980	PB83-154872	200.00
1981	PB84-136118	200.00
1982	PB85-153625	400.00
1983	PB86-105897	200.00
1984	PB86-233087	400.00
1985	PB88-102322	400.00

## National Health Examination Survey, Cycle III, 1966-70

	Accession no.	Price
Extended Health Examination of Youths 12-17 Years (Tape No. 3EDT)	PB-296025	\$200.00

## National Health Examination Survey, Cycle II, 1963-65

	Accession no.	Price
Integrated Data (Tape No. 21DT)	PB-293124	\$200.00

## National Health Examination Survey, Cycle I, 1959-62

	Accession no.	Price
NHES I—Demographic Data Tape (Tape No. 1001)	PB-293134	\$200.00
NHES I—Summary of Psychological Distress (Tape No. 1002)	PB-293126	200.00
NHES I—Dental Findings (Tape No. 1006)	PB-293128	200.00
NHES I—Diabetes (Tape No. 1007)	PB-293132	200.00
NHES I—Vision (Tape No. 1008)	PB-293136	200.00
NHES I—Physical Measurement (Tape No. 1003)	PB-293122	200.00
NHES I—Cardiovascular (Tape No. 1004)	PB-293328	200.00
NHES I—Osteoarthritis and Rheumatoid Arthritis (Tape No. 1005)	PB-293130	200.00

### Vital Statistics, Natality, State Summary, 1968-85

Data year	Accession no.	Price
1968	PB-235643	\$200.00
1969	PB-235644	200.00
1970	PB-300426	200.00
1971	PB-300428	200.00
1972	PB-300430	200.00
1973	PB-300584	200.00
1974	PB-300588	200.00
1975	PB-300586	200.00
1976	PB-300590	200.00
1977	PB-300592	200.00
1978	PB80-186315	200.00
1979	PB82-132309	200.00
1980	PB83-154856	200.00
1981	PB84-136134	200.00
1982	PB85-153591	200.00
1983	PB86-105608	200.00
1984	PB86-233103	200.00
1985	PB88-100433	200.00



**Vital Statistics, Mortality, Detail, 1968-85**

Data year	Accession no.	Price
1968	PB-300800	\$1,100.00
1969	PB-299676	1,000.00
1970	PB-299679	1,000.00
1971	PB-300802	1,000.00
1972	PB-300885	600.00
1973	PB-300805	1,100.00
1974	PB-300807	1,100.00
1975	PB-300809	1,100.00
1976	PB-300811	1,100.00
1977	PB-300798	1,000.00
1978	PB81-125106	900.00
1979	PB83-132357	500.00
1980	PB83-261552	500.00
1981	PB84-213016	300.00
1982	PB85-163897	500.00
1983	PB86-120441	900.00
1984	PB87-129706	900.00
1985	PB88-101316	900.00

**Vital Statistics, Mortality, Multiple Cause-of-Death, Detail, 1968-85**

Data year	Accession no.	Price
1968	PB82-191800	\$1,100.00
1969	PB82-155011	1,100.00
1970	PB82-121716	1,100.00
1971	PB82-142654	1,100.00
1972	PB82-191966	500.00
1973	PB82-191644	1,100.00
1974	PB82-186156	1,100.00
1975	PB82-157322	1,100.00
1976	PB81-186827	1,400.00
1977	PB81-217382	1,400.00
1978	PB82-105743	1,100.00
1979	PB83-153031	1,700.00
1980	PB84-112200	700.00
1981	PB85-153617	1,700.00
1982	PB85-224202	1,700.00
1983	PB86-138831	1,660.00
1984	PB87-161030	1,700.00
1985	PB87-235057	1,700.00

**Vital Statistics, Mortality, Local Area Summary, 1968-85**

Data year	Accession no.	Price
1968	PB-238827	\$200.00
1969	PB80-126618	200.00
1970	PB80-108749	200.00
1971	PB80-126642	200.00
1972	PB80-126667	200.00
1973	PB80-133374	200.00
1974	PB80-126683	200.00
1975	PB80-134158	200.00
1976	PB80-134117	200.00
1977	PB80-131675	200.00
1978	PB81-100232	200.00
1979	PB83-143230	200.00
1980	PB83-261636	200.00
1981	PB84-212992	200.00
1982	PB85-163913	400.00
1983	PB86-120482	400.00
1984	PB86-125639	400.00
1985	PB88-101357	400.00

**Vital Statistics, Marriage, Detail, 1968-85**

Data year	Accession no.	Price
1968	PB-235645	\$200.00
1969	PB-235646	200.00
1970	PB80-186331	200.00
1971	PB80-186356	200.00
1972	PB80-185887	300.00
1973	PB80-186273	300.00
1974	PB80-185846	300.00
1975	PB80-185903	400.00
1976	PB80-185861	400.00
1977	PB80-185804	400.00
1978	PB81-164733	400.00
1979	PB81-238743	200.00
1980	PB83-261610	200.00
1981	PB84-164201	200.00
1982	PB85-221646	200.00
1983	PB86-185923	400.00
1984	PB87-197109	400.00
1985	PB88-181987	400.00

**Vital Statistics, Mortality, Cause-of-Death Summary, 1968-85**

Data year	Accession no.	Price
1968	PB80-126550	\$300.00
1969	PB80-133358	300.00
1970	PB80-133333	300.00
1971	PB80-133317	300.00
1972	PB80-133275	200.00
1973	PB80-126576	300.00
1974	PB80-133291	300.00
1975	PB80-134133	300.00
1976	PB80-134091	300.00
1977	PB80-126592	300.00
1978	PB81-100257	300.00
1979	PB83-132373	200.00
1980	PB83-261578	300.00
1981	PB84-213032	300.00
1982	PB85-163764	500.00
1983	PB86-120466	900.00
1984	PB87-129680	600.00
1985	PB88-101332	600.00

**Vital Statistics, Divorce, Detail, 1968-85**

Data year	Accession no.	Price
1968	PB-238824	\$200.00
1969	PB-238825	200.00
1970	PB80-186745	200.00
1971	PB80-187164	200.00
1972	PB80-187180	200.00
1973	PB80-187149	200.00
1974	PB80-187123	200.00
1975	PB80-186786	200.00
1976	PB80-186760	200.00
1977	PB80-186729	300.00
1978	PB81-100216	300.00
1979	PB81-238800	200.00
1980	PB83-242644	200.00
1981	PB84-164185	200.00
1982	PB85-179430	200.00
1983	PB86-165248	200.00
1984	PB87-125506	200.00
1985	PB88-127865	200.00

**National Natality Surveys, 1964-66, 1967-69, and 1972**

Data year	Accession no.	Price
1964-66	PB-237326	\$200.00
1967	PB-300997	200.00
1968	PB-301157	200.00
1969	PB-300999	200.00
1972	PB-301358	200.00

**National Natality Survey and National Fetal Mortality Survey, 1980**

Data year	Accession no.	Price
1980	PB84-177310	\$200.00

**National Infant Mortality Survey, 1964-66**

Data year	Accession no.	Price
1964-66	PB-238560	\$200.00

**National Mortality Survey, 1966-68**

Data year	Accession no.	Price
1966-68	PB80-117138	\$200.00

**Mortality Surveillance System, 1968-83**

Data year	Accession no.	Price
1968-83	PB87-120333	\$900.00

**National Survey of Family Growth, 1973, 1976, and 1982**

Data year	Accession no.	Price
1973	PB-277054	\$200.00
1976	PB-294480	200.00
1976 couple	PB80-168206	200.00
1976 combined	PB80-219702	200.00
1982 combined respondent and interval file	PB85-100022	200.00

**National Hospital Discharge Survey, 1970-86**

Data year	Accession no.	Price
1970	PB-270763	\$200.00
1971	PB-270765	200.00
1972	PB-270767	200.00
1973	PB-270769	200.00
1974	PB-270771	200.00
1975	PB-270773	200.00
1976	PB82-179227	200.00
1977	PB82-179326	200.00
1978	PB82-179342	200.00
1979	PB82-179334	200.00
1980	PB83-126318	200.00
1981	PB85-152338	200.00
1982	PB85-153658	200.00
1983	PB85-152304	200.00
1984	PB86-107737	200.00
1985	PB87-125613	200.00
1986	PB88-129440	200.00

**National Ambulatory Medical Care Survey, 1973, 1975-81, and 1985**

Data year	Accession no.	Price
1973	PB-293900	\$200.00
1975	PB-290478	200.00
1976	PB-291152	200.00
1977	PB80-130230	200.00
1978	PB80-204092	200.00
1979	PB82-122029	200.00
1980	PB82-191941	200.00
1981	PB84-188960	200.00
1985	PB88-103676	200.00

**National Ambulatory Medical Care Survey, Drug Mentions, 1980-81, and 1985**

Data year	Accession no.	Price
1980	PB83-154799	\$200.00
1981	PB83-199570	200.00
1985	PB88-146113	200.00

**National Nursing Home Survey, 1969, 1973-74, and 1977**

Data year	Accession no.	Price
1969	Available from NCHS	\$500.00
1973-74	Available from NCHS	500.00
1977	PB80-188030	500.00
1977, 5-State	PB80-188717	500.00

**National Master Facility Inventory, Hospitals, 1971-76**

Data year	Accession no.	Price
1971	PB-284912	\$200.00
1972	PB-284914	200.00
1973	PB-284916	200.00
1974	PB-284918	200.00
1975	PB-284920	200.00
1976	PB-284922	200.00

**National Master Facility Inventory, Nursing Homes and Other Health Facilities, 1971, 1973, 1976, 1980, and 1982**

Data year	Accession no.	Price
1973	PB-287268	\$200.00
1976	PB-287230	200.00
1980	PB83-178459	200.00
1982	PB86-237872	200.00

**National Inventory of Family Planning Services, 1974 and 1975**

1974	Available from NCHS	
1975	Available from NCHS	

**National Family Planning Reporting System**

Data year	Accession no.	Price
1980	PB83-215582	\$200.00

**National Medical Care Utilization Expenditure Survey**

Data year	Accession no.	Price
NMCUES, 1980	PB83-229542	\$700.00
1980 NMCUES family data tape	PB87-172326	200.00

**National Survey of Personal Health Practices and Consequences**

Data year	Accession no.	Price
Waves I and II	PB83-104323	200.00

**International Classification of Diseases — 9th Revision<sup>1</sup>**

	Accession no.	Price
ICD-9-CM, Adjunct Materials: Codes and Full Titles	PB82-179300	\$200.00
ICD-9-CM, Adjunct Materials: Codes and Abbreviated Titles	PB82-186057	200.00
ICD-9-CM, Adjunct Materials: Diagnosis/Conversion Tables ICD-9-CM to ICDA-8	PB82-179284	200.00
ICD-9-CM, Adjunct Materials: Diagnosis/Conversion Tables ICD-9-CM to ICD 9	PB82-186073	200.00
ICD-9-CM, Adjunct Materials: Editing Aids and Sex-Specific Codes, and Abbreviated Titles	PB82-186099	200.00
ICD-9-CM: Adjunct Materials: Editing Aids and Sex-Specific Codes, and Full Titles	PB82-179268	200.00

<sup>1</sup>Data users are advised to contact STIB, NCHS, for information concerning the updating of these files prior to ordering.

# Order form

Mail Order To:

## NTIS

National Technical Information Service  
U.S. DEPARTMENT OF COMMERCE  
Springfield, VA 22161  
(703) 487-4650 TELEX 89-9405

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Name\_\_\_\_\_

Organization\_\_\_\_\_

Address\_\_\_\_\_

City, State, Zip\_\_\_\_\_

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### Method of Payment

☐ Charge my NTIS deposit account no.\_\_\_\_\_

☐ Purchase order no.\_\_\_\_\_

☐ Check enclosed for \$\_\_\_\_\_

☐ Charge my: ☐ American Express ☐ Visa ☐ MasterCard

Account no.\_\_\_\_\_

Card expiration date\_\_\_\_\_

Signature\_\_\_\_\_

(Required to validate order)

☐ Send me an application for an NTIS Deposit account  
(NTIS-PR-33)

Date\_\_\_\_\_

### Ship To:

(Enter if Different From Address at Left)

Name\_\_\_\_\_

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City, State, Zip\_\_\_\_\_

### Ordering Magnetic Tape

(check node)

☐ 9 track ☐ 1600 bpi ☐ (odd parity)  
☐ 6250 bpi

NTIS ORDER NUMBER	QUANTITY	PRICE	NTIS ORDER NUMBER	QUANTITY	PRICE

### Data Purchase and Use Agreement

Individual identifiers have been removed from the microdata public use data tapes available from the National Center for Health Statistics. Nevertheless, section 308(d) of the Public Health Service Act (42 U.S.C. 242m) specifies that data collected by the National Center for Health Statistics may not be used for any purpose other than that for which it was supplied. The information on the microdata public use tapes available for purchase was supplied to NCHS for statistical research and reporting purposes. It is necessary, therefore, that the individual ordering such tapes sign the following assurance:

The undersigned gives assurance that individual elementary unit data on the microdata public use tapes being ordered will be used solely for statistical research or reporting purposes.

Signed:\_\_\_\_\_

Title:\_\_\_\_\_

Proposed Use:\_\_\_\_\_

Date:\_\_\_\_\_

Organization:\_\_\_\_\_



## Appendix B

### U.S. Department of Agriculture Data Set Listing

<u>Publication</u>	<u>Stock Number</u>	<u>Price</u>
Agriculture Handbook No. 8, Composition of Foods...Raw, Processed, Prepared 1963 Edition .....	001-000-00768-8	\$7.00
Agriculture Handbook No. 8, Composition of Foods...Raw, Processed, Prepared Revised Sections (1976-present)		
8-1 Dairy and Egg Products (1976).....	001-000-03635-1	\$9.00
8-2 Spices and Herbs (1977).....	001-000-03646-7	3.75
8-3 Baby Foods (1978).....	001-000-03900-8	12.00
8-4 Fats and Oils (1979).....	001-000-03984-9	7.50
8-5 Poultry Products (1979).....	001-000-04008-1	17.00
8-6 Soups, Sauces, and Gravies (1980)...	001-000-04114-2	12.00
8-7 Sausages and Luncheon Meats (1980)..	001-000-04183-5	6.00
8-8 Breakfast Cereals (1982).....	001-000-04283-1	9.00
8-9 Fruits and Fruit Juices (1982).....	001-000-04287-4	14.00
8-10 Pork Products (1983).....	001-000-04368-4	11.00
8-11 Vegetables and Vegetable Products (1984).....	001-000-04427-3	16.00
8-12 Nut and Seed Products (1984).....	001-000-04429-0	5.50
8-13 Beef Products (1986).....	001-000-04482-6	19.00
8-14 Beverages (1986).....	001-000-04468-1	9.50
8-15 Finfish and Shellfish Products (1987)	001-000-04497-4	10.00
8-16 Legumes and Legume Products (1986)..	001-000-04488-5	8.50
8-17 Lamb, Veal and Game.....	*	
8-18 Baked Products.....	*	
8-19 Snacks and Sweets.....	*	
8-20 Cereal Grains and Pastas.....	*	
8-21 Fast Foods.....	001-000-04524-5	11.00
8-22 Mixed Dishes.....	*	
Agriculture Handbook No. 456, Nutritive Value of American Foods in Common Units (1975).....	001-000-03184-8	8.50
Home and Garden Bulletin No. 72 Nutritive Value of Foods (Rev. 1985).....	001-000-04457-5	2.75

\* Not yet available

## Food Composition Data Sets

Data sets available in machine-readable form from the National Technical Information Service are listed below with NTIS accession number and cost. Ordering instructions begin on page 40.

<u>Computer Tapes</u>	<u>Accession Number</u>	<u>Cost</u>
USDA Nutrient Data Base for Standard Reference, Release 5, 1985.....	PB85-140051/HBF	\$210
Release 6, 1987.....	PB87-208195	210
Release 7, 1988.....	PB88-234281	210
USDA Nutrient Data Base for Standard Reference, Abbreviated Version, Release 5, 1985.....	PB85-140077/HBF	210
Release 6, 1987.....	PB87-208211	210
Release 7, 1988.....	PB88-234307	210
USDA Nutrient Data Base for Standard Reference, Supplement to Release 4: Sections 11 and 12 from Agriculture Handbook No. 8.....	PB85-140069/HBF	210
Supplement to Release 5: Section 13, 14 and 16 from Agriculture Handbook No. 8.....	PB87-208203	210
Supplement to Release 6; Section 15 from Agriculture Handbook No. 8.....	PB88-234299	210
Data Set 72-1, Release 3, 1985.....	PB86-143211/AS	210
USDA Nutrient Data Base for Individual Food Intake Surveys		
Release 1, 1980.....	PB82-138504/HBF	210
Release 2, 1986.....	PB86-206299/HBF	210
Release 2.1 1986.....	PB87-181020	210
Release 3.....	*	
Release 4.....	*	

Data sets used to create Release 2 of USDA Nutrient Data Base for Individual Food Intake Surveys (four data sets on one tape).....	PB86-206281/HBF	210
Data sets used to create Release 3 of USDA Nutrient Data Base for Individual Food Intake Surveys (four data sets on one tape).....	*	
Data sets used to create Release 4 of USDA Nutrient Data Base for Individual Food Intake Surveys (four data sets on one tape).....	*	
1977-78 NFCS Food Codes (Release 1) Linked to 1985 Nutrient Data (Release 2).....	PB87-142451	210
USDA Nutrient Data Base for Household Food Use Surveys.....	PB82-138496/HBF	210
Data Set 102-1.....	PB81-146730/HBF	210
Data Base for Pilot Study of Nutrient Content of School Lunches.....	PB84-196906/HBF	210
5-1/4" Diskettes	Accession Number	Cost
USDA Nutrient Data Base for Standard Reference, (Release 5), for Microcomputers.....	PB86-167525/HBF	225
Release 6.....	PB87-208229	225
Release 7.....	PB88-234315	225
USDA Nutrient Data Base for Standard Reference, (Release 5), Abbreviated Version for Microcomputers.....	PB86-167541/HBF	125
Release 6.....	PB87-208245	125
Release 7.....	PB88-234331	125
Data Set 72-1, Nutritive Values of Food, as in Home & Garden Bulletin No. 72, Revised 1985.....	PB86-143203/AS	75
USDA Nutrient Data Base for Standard Reference, for Microcomputers. Supplement to Release 5.....	PB87-208237	210
Supplement to Release 6.....	PB88-234323	175
Dietary Analysis Program for PC.....	PB89-138275	60

\*Not yet released

## Survey Data sets and Microfiche

Two types of data sets are available--those presenting results on household use of food and those presenting results on individual intake. Socioeconomic variables are included in both types. Ordering instructions begin on page 40.

	<u>Data set</u>	<u>Accession Number</u>	<u>Cost</u>
<u>NFCS 1977-78</u> <u>Household Data</u>	Spring Basic Household Food Consumption Survey, 1977-78.....	PB80-190176/HBF	\$325
	Summer Basic Household Food Consumption Survey, 1977-78.....	PB80-197411/HBF	325
	Fall Basic Household Food Consumption Survey, 1977-78.....	PB80-200215/HBF	325
	Winter Basic Household Food Consumption Survey, 1977-78.....	PB80-202542/HBF	325
	Puerto Rico Household Food Consumption Survey, 1977-78.....	PB82-138454/HBF	325
	Alaska Household Food Consumption Survey, 1977-78.....	PB81-146763/HBF	210
	Hawaii Household Food Consumption Survey, 1977-78.....	PB81-146755/HBF	210
	Elderly Household Food Consumption Survey, 1977-78.....	PB83-137281/HBF	210
	Low-Income I, Household Food Consumption Survey, 1977-78.....	PB81-114399/HBF	325
	Low-Income II, Household Food Consumption Survey, 1979-80.....	PB82-138470/HBF	325
<u>NFCS 1977-78</u> <u>Individual</u> <u>Intake Data</u>	Spring Basic Individual Food Intake Survey, 1977-78.....	PB80-190218/HBF	525
	Summer Basic Individual Food Intake Survey, 1977-78.....	PB80-197429/HBF	425
	Fall Basic Individual Food Intake Survey, 1977-78.....	PB80-200223/HBF	525



<u>Data set</u>	<u>Accession Number</u>	<u>Cost</u>
Winter Basic Individual Food Intake Survey, 1977-78.....	PB81-118853/HBF	525
Puerto Rico Individual Food Intake Survey, 1977-78.....	PB82-138462/HBF	425
Alaska Individual Food Intake Survey, 1977-78.....	PB81-162539/HBF	210
Hawaii Individual Food Intake Survey, 1977-78.....	PB81-146771/HBF	210
Low-Income I, Individual Food Intake Survey, 1977-78.....	PB81-118838/HBF	625
Low-Income II, Individual Food Intake Survey, 1979-80.....	PB82-138488/HBF	325
Spring Individual Food Intake, 1965.....	PB80-195415/HBF	325
Spring and Summer Elderly Individual Food Intake Survey, 1977-78....	PB83-134023/HBF	210
Fall and Winter Elderly Individual Food Intake Survey, 1977-78.....	PB86-206307/HBF	210

CSFII 1985 and 1986:  
Individual  
Intake Data sets  
and Microfiche

All data sets include the following: a description of the survey methodology; data set characteristics and format; control counts for selected variables; food and nutrient intake data; a 51-character food description file; and a manual of food codes used for translating food intakes into nutrient intakes. The paper copy that comes with each data set includes all the above material except for the food and nutrient intake data. It also contains copies of the survey instruments (interviewer's instruction manual, screening forms and questionnaires, and a food instruction booklet.) The microfiche version of the paper copy may be ordered separately.

CSFII 85-1:	Women 19 to 50 Years and Their Children 1 to 5 Years, 1 Day, 1985		
	Data Set (includes paper copy)...	PB86-171006	\$325.00
	Microfiche only.....	PB86-170990	5.95
	Paper copy of microfiche.....	PB86-170990	80.00

	<u>Data set</u>	<u>Accession Number</u>	<u>Cost</u>	
CSFII 85-2:	Low-Income Women 19 to 50 Years and Their Children 1 to 5 Years, 1 Day, 1985			
	Data set (includes paper copy)..	PB87-197158	\$325	
	Microfiche only.....	PB87-134722	14.50	
	Paper copy.....	PB87-134722	56.95	
CSFII 85-3:	Men 19 to 50 Years, 1 Day, 1985.....			
	Data set (includes paper copy)..	PB87-197141	325	
	Microfiche only.....	PB87-194049	19	
	Paper copy.....	PB87-194049	98.95	
CSFII 85-4:	Women 19 to 50 Years and Their Children 1 to 5 Years, 4 Days, 1985			
	Data set (includes paper copy)..	PB88-201249	325	Microfiche o
	Paper copy.....	PB88-201256	98.95	
CSFII 85-5:	Low-income Women 19 to 50 Years and Their Children 1 to 5 Years, 4 Days, 1985			
	Data set (includes paper copy)...	PB88-245121	325	
	Microfiche only.....	PB88-245113	29	
	Paper copy.....	PB88-245113	98.95	
CSFII 85-6:	Women 19-50 Years and Their Children 1-5 Years, 6 Waves of Data, 1985			
	Data set (includes paper copy)..	PB88-122411	325	
	Microfiche only .....	PB88-100227	34	
	Paper copy.....	PB88-100227	104.95	
CSFII 85-7:	Low-Income Women 19-50 Years and Their Children 1 to 5 Years, 6 Waves of Data, 1985			
	Data set (includes paper copy)..	PB89-154330	325	
	Microfiche only.....	PB89-154348	31	
	Paper copy.....	PB89-154348	103.95	
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	Data set (includes paper copy)...	PB88-117767	325	
	Microfiche only.....	PB88-100219	19	
	Paper copy.....	PB88-100219	80.95	
CSFII 86-2:	Low-Income Women 19 to 50 Years and Their Children 1 to 5 Years, 1 Day, 1986			
	Data set (includes paper copy)...	PB89-124382	325	
	Microfiche only.....	PB89-124390	25.50	
	Paper copy.....	PB89-124390	85.95	

	<u>Data set</u>	<u>Accession Number</u>	<u>Cost</u>
CSFII 86-3:	Women 19 to 50 Years and Their Children 1 to 5 Years, 4 Days, 1986		
	Data set (includes paper copy)..	PB89-154355	325
	Microfiche only.....	PB89-154363	36
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	Data set (includes paper copy)..	PB89-154371	325
	Microfiche only.....	PB89-154389	31
	Paper copy.....	PB89-154389	109.95
CSFII 86-6	Low-Income Women 19 to 50 Years and Their Children 1 to 5 Years, 6 Waves of Data, 1986		
	Data set (includes paper copy)..	*	
	Microfiche only.....	*	
	Paper copy.....	*	

\* Not released yet

## HOW TO ORDER

### Publications

Food composition and food survey publications may be ordered from the Government Printing Office. The stock numbers and cost for food composition publications are given on page 4; those for food survey publications on pages 31 to 33.

To order a publication send a check or money order (no cash) to:

Superintendent of Documents  
U.S. Government Printing Office  
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Please include the publication title, publication stock number, and your name, address, and zip code.

To order publications by telephone, call (202) 783-3238. Orders must include the publication's stock number and may be charged to Mastercard or VISA.

Prices on publications are subject to change without notice. Check with GPO before ordering.

### Publications, Data sets, and microfiche

Most CSFII publications and all data sets available to the public are distributed through the National Technical Information Service (NTIS) at: U.S. Department of Commerce, National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161. To reduce the probability of getting the wrong data set, requests for data tapes should include the accession number given on pages 25 and 26 or on pages 34 to 39. When ordering data diskettes, please use the complete title.

### Ordering

Please add \$3.00 for shipping and handling per order. Documentation is included in the price of the data tape or diskette.

Normal shipment for computer tapes is by United Parcel Service. Express shipment with overnight delivery of tapes is available at the customer's expense. Tapes may also be picked up at NTIS. Please let NTIS know if you wish any of these two options when ordering.

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2. Life Sciences Research Office, Federation of American Societies for Experimental Biology: *Nutrition Monitoring in the United States — An Update Report on Nutrition Monitoring*. Prepared for the U.S. Department of Agriculture and the U.S. Department of Health and Human Services. DHHS Publication No. (PHS) 89-1255. Public Health Service. Washington. U.S. Government Printing Office. September 1989.



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